



REGISTERED AS A NEWSPAPER

TELEPHONE: CENTRAL 3617
TELEGRAMS: "CHEMICUS,
CANNON, LONDON" (2 Words)

PUBLISHED WEEKLY AT 42 CANNON STREET, LONDON, E.C.4.

SUBSCRIPTION (WITH
DIARY) 20/- PER ANNUM
SINGLE COPIES 9d.

No. 2546.

NOVEMBER 24, 1928.

Vol. CIX.

"Caloplast"

Supersedes the old-fashioned Poultice

"Caloplast" is an improved dressing for the application of moist heat and is much superior in use and effect to linseed poultices, plasters and other fomentations. The formula of this product has been improved and "Caloplast" now attains a very high standard. This product is being brought prominently to the notice of the members of the Medical Profession and there should be an increasing demand.

Supplied
in tins :

$\frac{1}{2}$ lb. - 2/-

1 lb. - 3/6

AND

4 lbs - 12/-

Hospital
Size



On the
P.A.T.A.

Subject to
the usual
speciality
discount.

ALLEN & HANBURY LTD.

BETHNAL GREEN, LONDON, E.2.

NEWLY INTRODUCED

MORNY LIPSTICK

In BLACK & GOLD PROPELLER CASE

Minimum Retail
Price in
Great Britain

2/6



Minimum Retail
Price in
Great Britain

2/6

THIS new Morny Lipstick retailing at 2/6 will enable you to secure a greater share of the lipstick business that is so rapidly developing in this country. The black and gold propeller case is handsome and practical, and the circular black and gold outer illustrated makes a very novel and attractive counter display.

In four colours :—Carmine, Cerise, Carnaval and Rouge.

A SUPERLATIVE PRODUCT

Apply for full Price List and Terms to:—

MORNY FRÈRES, LIMITED **6** NEW BURLINGTON STREET, LONDON, W.1

6^d. lines for Chemists are like the Curate's egg— good in parts!

Much depends on local conditions, what you are trying to sell and the methods of display employed.

But a little bit of experience is worth a ton of theories and a whole world of prejudices. In suggesting that one of the best lines you can put in your window or on your counter at present is the 10 for 6d. packet of

WIGG'S FUMORA CIGARETTES

We *know* what the result will be. This

“WIGGLESWORTH WAY”

product has been selling splendidly now for twelve months. People with stuffy Head Colds, Nasal Catarrh or Asthma prefer “a smoke” to physic, especially when they find the remedy is both pleasant and remarkably efficacious.

Whilst some Chemists are theorizing on the merits or evils of the 6d. sale, many others have discovered that this “Smoke your Cold away” appeal is bringing them good business and profits.

Would you like a Sample and Price?

WIGGLESWORTH LTD.
WESTHOUGHTON
LANCS.

**There are no 'dustbin' sales
with**

'Moorland's'

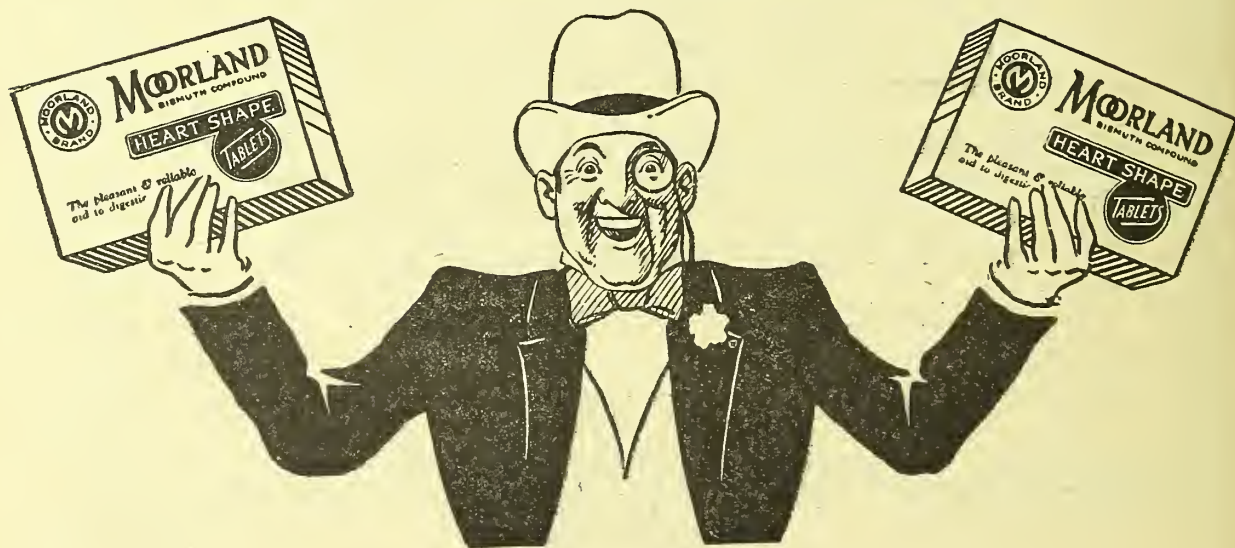
**THEY ARE SOLD REGULARLY
TO SATISFIED CUSTOMERS**

When you buy a stock of "Moorland's" you know you are purchasing a line that will sell regularly to an ever-increasing number of satisfied customers. "Moorland's" are so utterly dependable that customers come back again and again for them. It has paid us handsomely to adhere to the original superior formula. That's why "Moorland's" are the best and quickest selling tablet of their kind on the market to-day. That's why no other similar tablet can even approach them. You see, it's quality that tells. And we are keeping up the same high standard—it pays so well.

**You do a wise and sensible thing when you
put "Moorland's" on your order form**

One Gross 5/-; One Dozen 4/6; Retail 7½d.

W. B. CARTWRIGHT LTD., RAWDON NR. LEEDS



Let **WILLIAM EDWARDS & SONS**
help you to prepare for a Good Season

Christmas Gift Lines!!

POWDER BOWLS, PERFUME SPRAYS, MANICURE SETS, HAIR BRUSHES, SHAVING BRUSHES, HAND MIRRORS, COFFRETS, LAVENDER WATER, COLOGNE, BATH CRYSTALS, in great variety



No. 233.



No. 259.



No. 265.

THE BON-BON HANDKERCHIEF PUFF.

The Novelty of the year. These attractive bon-bons contain a full-size silk handkerchief puff together with cracker and motto. They will appeal to your customers as something new and useful. To display them is to sell them. Include some in your next order.

	No. 233.	No. 259.	No. 265.
Packed in $\frac{1}{2}$ -dozens ..	14/-	20/-	28/-
Packed each in a box	17/-	23/-	31/-
Per dozen Bon-bons.			

No. 2072.

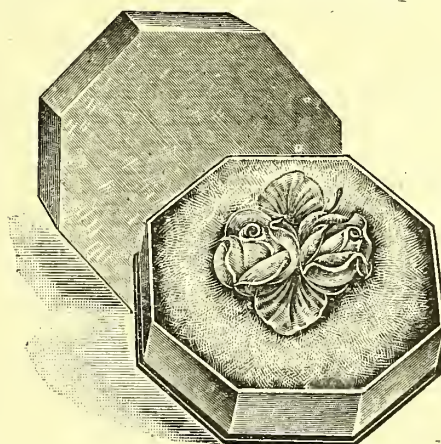
TINTED SWANSDOWN PUFFS IN ATTRACTIVE BOXES.

These make delightful gifts for ladies. With pretty velvet floral tops on best tinted swansdown. They are made in three sizes.

Inches	..	..	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$
Dozen	..	..	36/-	42/-	54/-



No. 50.



No. 2072.

No. 50.

PRESENTATION SETS OF TWO PUFFS.

Always sell for Christmas trade. This is a cheap but good line, and you are well advised to have a few.

20/- per dozen sets.

We have a large variety of other patterns of Fancy Puffs, also a choice selection of Handkerchief Puffs. Send for sample range.

WILLIAM EDWARDS & SONS, DRUGGISTS' SUNDRIESMEN
 14-18 Nile St., City Road, London, N.1



Moderately priced Peppermint Oils

AS growers and distillers of English Peppermint for more than eighty years, StaffAllens are able to apply their knowledge and experience to the rectification and blending of natural oils from all sources.

While for some purposes English and American Oils are necessary, there are a number of StaffAllens rectified oils which should interest many buyers. In particular, CC, CCC and Terpene-

less; these oils are placed in their order of value, the first being the cheapest. They are all moderately priced.

Samples and quotations may be had on application. STAFFORD ALLEN & SONS, LIMITED, Essential Oil Distillers, Established A.D. 1833, COWPER STREET, FINSBURY, LONDON, E.C.2. Telephone: Clerkenwell 2100 (5 lines). Telegrams: Stafalens, Finsquare, London.

StaffAllens PEPPERMINT OILS

INDEX TO ADVERTISERS

Addis, R., & Son (Dental Plate Brush) 24	Brown & Sons (Stills) 39	Gardiner & Co. (The Scotch House), Ltd. (Overalls) xxxv
Allen & Hanburys, Ltd. (Caloplast) Cover	Bruce, Starke & Co. (Cod-Liver Oil) xxviii	Genoxide, Ltd. (Bath Powder, &c.) .. xix
Allen, Stafford, & Sons, Ltd. (Peppermint Oil) 4	Buckley-Bowker Tablet Co. (Tablets) viii	George, Ernest J. (Valuer, &c.) Col. Supp.
Allwood Bros. (Carnation Perfumery) 26	Burroughs, J., Ltd. (Alcohol) Leader Page	Gilmont Products, Ltd. (New Mix) 9
Amalgamated Laboratories, Ltd. (Nerve Tonic) 46	Burrucoughs Wellcome & Co. (Sodium Salicylate) 51	Glaxo xxix
Anglo-American Oil Co., Ltd. (Emulsions) 7	Bussell, T. C. (Bottle Caps) xxxvi	Gollin & Co. Pty., Ltd. ("Aspro") xxv
Anglo-French Drug Co., Ltd. (Stannoxyl) xii	Butywave Co. (Toilet Preps.) 24	Goodall, Backhouse & Co. (Seidlitz Powders, &c.) xxi
Ansary, R., Ltd. (Solvantine) ii	Carr & Co., Ltd. (Bath Rusks) xxx	Gower, John (Books) Col. Supp.
Armstrong Cork Co., Ltd. (Corks) .. 16	Cartwright, W. B., Ltd. (Moorland Heart Shape Tablets) 2	Grout & Co., Ltd. (Crêpe Bandages) xxxii
Arnfield, J. C., & Sons, Ltd. iii	Castle Huskisson, Ltd. (Tablets, &c.) viii	Guest, H. Marcel (Capping Solution) 35
Assoc. of Manfg. Chts., Ltd. x-Col. Supp.	Cavendish Chemical Corporation xx	Guest, T., & Co., Ltd. (Tablets, &c.) 14
Autway Co. (Weighing Machines) .. 10	Cellophane Co., Ltd. xxxvi	Hackett, S. E. Col. Supp.
Ayrtoun-Graham, Ltd. (Shopfittings) .. xi	Chemical Works, "Flora" (Ess. Oils) 20	Haller Labs., Ltd. (Danysz Virus) .. 42
Ayrtoun, Saunders & Co., Ltd. (Wholesale Druggists) 15	Christy, T., & Co. (Pyshan Points Tea, Cucumel) 44-52	Hampshire, F. W., & Co., Ltd.
Baileys (Developing and Printing) .. 43	Clayton (Surgical & First Aid), Ltd. (Iodine) v	Harker, C. R., Staggs & Morgan, Ltd. xiv
Baker Metal Stopper Co., Ltd. (Screw Caps, &c.) xxxiv	Coate & Co. (Axminster), Ltd. (Tooth-brushes) 32	Harkness, Beaumont & Co. (Disinfectant) xiv
Barker, R., & Son, Ltd. (Infants' Preservative) xxx	Cocoa Mills, Wessanen viii	Harris, J., & Co. (Advertising Balloons) xxxiii
Battle, Hayward & Bower (Paint Sticks) 42	Connell, A., & Co. (Aniline Dyes, &c.) iii	Harrison, A., & Sons (Printing) 46
Bayer Products, Ltd. xi	Croda, Ltd. (Lanoline) xxvi	Harvey & Co. (Dublin), Ltd. (Vetny.) 42
Beatson, Clark & Co., Ltd. (Bottles) xxxvi	Crookes Laboratories (Ferromalt) .. xix	Haywood, J. H., Ltd. (Surgical Appliances) xxxiii
Beattie, Hunter (Shaving Soap, &c.) 22	Cussons, Sons & Co., Ltd. (Toilet Specialities) 23	Heward, R. H., Co. (Surgical) xxxiv
Beechams Pills, Ltd. (Veno's Cough Cure, &c.) xxiii	Davenport, J. T., Ltd. (Chlorodyne) xxii	Himrod Manfg. Co., Ltd. xi
Bell, John, Hills & Lucas, Ltd. (Pharm. Preps.) 36	Daykol Electric, Ltd. 41	Hind & Lund, Ltd. (Machinery) 39
Beltona, Ltd. (Rheumatic Lotion) xvii	Dearborn (1923), Ltd. (Toilet Preps.) 24	Hirst, Brooke & Hirst, Ltd. (Crude Drugs, &c.) xiii
Benckiser, J. A. (Tartaric Acid, &c.) x	Deshell Labs., Ltd. (Petrolagar) .. xviii	Hoffman-La Roche Chemical Works, Ltd. (Pharmaceutical Products) vii
Benger's Food, Ltd. (Foods) 52	De S. N. (Indian Drugs) x	Holl, Karl (Screw Caps, &c.) xxxviii
Bennett, Sons & Shears, Ltd. (Mchny.) 40	Dickeson, R., & Co. (Besorbon) xvi	Horlick's Malted Milk Co., Ltd. .. xxxvii
Berdce & Fish (Valuers, &c.) Col. Supp.	Dubarry et Cie (Crème Shalimar) Cover	Houbigant Perfumery 33
Berg, E., Ltd. (Shopfittings) 44-Col. Supp.	Dudley & Co., Ltd. (Christmas Showcards, &c.) 38-41-44	Howard, Lloyd, & Co., Ltd. (Tablets) viii
Berk, F. W., & Co., Ltd. (Chemicals) ii	Dupont, J., & Co. (Tooth Brushes) .. 44	Hunt's, Ltd. (Stone Bottles) Leader Page
Betts & Co., Ltd. (Collapsible Tubes) 16	Edge, Wm., & Sons, Ltd. (Movol) .. 48	Ingram & Royle, Ltd. (Mineral Waters) xxxi
Blackie, R. (Spun Ointments) xv	Edwards Harlene, Ltd. (Hair Preps.) 28	Jackel et Cie (of Paris), Ltd. (Hair Cream) 30
Blythe, W., & Co., Ltd. (Chemicals) .. ix	Edwards, Wm., & Sons (Christmas Gifts) 3-32	Jackson, Ernest, & Co., Ltd. (Pyramids for Coughs) 12
Bob Martin, Ltd. (Dog Medicines) .. 36	Eno, J. C., Ltd. (Fruit Salt) i	Jackson, J. P., & Co., Ltd. (Rapid Filters) 40
Borax Consolidated, Ltd. (Borax) .. vi	Evans, Adlard & Co., Ltd. (Filter Papers) 36	Johnson & Sons Mfg. Chemists, Ltd. (Galenicals, &c.) iii
Box, W. H. (Box's Pills) xiv	Fairchild Bros. & Foster (Panopepton) Leader Page	Johnston & Adams (Slipperine) 48
Bredt, W. (Dr. Thilo's Preps.) xi	Farmer, F., & Co. (Rat Poison) 42	Jones, Wm. Alfred, Ltd. (Pastilles) .. xx
Bridgen & Griffin (Perfume Sprays) 32	Fellows' Medical Manfg. Co., Inc. xxiv	Josephs, Percy R. E. Col. Supp.
Brierley, John (Valuer, &c.) .. Col. Supp.	Ferris & Co., Ltd. (Nigroids) xvi	Josephs, Philip, & Sons (Shopfittings) 38-Col. Supp.
Bristol-Myers Co. (Sal Ipeatica) Leader Page	Fink, F., & Co. (Gums) 44	
British Quain Sunlight, Ltd. 8	Frankenberg, L. (Razor Blades) 43	
Brooks, J., & Co., Ltd. (Spray Solutions) xii	Freeman's Chlorodyne, Ltd. 36	
	Fuller Laboratories (Celery Perles) .. xiv	

[Continued overleaf.]

For VARICOSE VEINS

and
the whole group of troubles
attributed to

**Relaxed Conditions
of the tissues.**

"ELASTO" is a scientifically prepared cell food—NOT A DRUG—and may be introduced with every confidence of extensive recommendation.

Recommend "ELASTO" for Varicose Veins, Ulcers, Eczema, Swollen Legs, Phlebitis, Thrombosis, Muscular Weakness, Bad Legs, Piles, Pro-lapsus, Varicocoele, Hardened Arteries, Blood Pressure, Deficient Circulation and kindred ailments.

One size only (a month's treatment), 5/-; per doz., 45/- from your wholesaler.



*Gets
at the
Cause*

Prepared in the Laboratories of
THE NEW ERA TREATMENT CO.
CECIL HOUSE, HOLBORN VIADUCT,
LONDON, E.C.

Full particulars, Showcards, and Leaflets on request.

INDEX—cont.

Kent, G. B., & Sons, Ltd. (Brushes) .. 26	Pillischer, J. (Microscopes, &c.) .. xxxiii	Stewart, Goodall & Dunlop, Ltd. (Nuctone) .. 30
Kerfoot, T., & Co., Ltd. (Black-currant Pastilles) .. 17	Pindar, J. W., & Co. (Mchy.) .. 39	Stokes, C. A., & Co., Ltd. (Leader Page)
King, J. C., Ltd. (Showcases) .. 50	Potter & Clarke, Ltd. (Wholesale Druggists) .. 45	Sturge, J. & E., Ltd. (Precipitated Chalk) .. vii
Lake, H. W., Ltd. (Silk Bandages) xxxv	Poulton, H. J. (Glassware) .. xxxvi	Summer's Typhoo Tea, Ltd. (Leader Page)
Lang, Jules, & Son (Glassware) .. 39	Prescriber, The .. 44	Sutley & Silverlock, Ltd. (Printers) 14
Lax & Shaw, Ltd. (Bottles) .. xxxviii	Proprietary Agencies, Ltd. (Milk of Magnesia) .. 52	Tatcho Tone Co. (Hair Preps.) .. 44
Lee, R. (Manicure Requisites) .. 48	Proprietors of Nonn, Ltd. .. xviii	Taylor, F. H., & Sons, Ltd. (Measures) .. xxxviii
Lever Bros., Ltd. (Glycerine) .. v	Pulman, G., & Sons, Ltd. (Printing) 18	Teasdales Chlorodyne Co. .. xii
Levermore, A., & Co., Ltd. (Precipitated Chalk) .. 44	Pure Russian Liq. Paraffin Co., Ltd. xxvi	Tibo Products Co., Ltd. (Rinex) .. 49
Liebermann, L. L. (Optical Tuition) 44	Radinm Springs, Ltd. (Radium Water) 47	Tilbury, W. R., & Son (Tooth Brushes) 32
Lincoln & Midland Counties Drug Co., Ltd. (Clarke's Blood Mixture) xxvii	Reed, A. E., & Co. (Glycerine) .. ii	Tolkien, C., & Co., Ltd. (Malt & Oil) 6
Liverpool School of Pharmacy .. 43	Riley, J., & Sons, Ltd. (Hypo) .. v	Tomlinson, T., & Son .. Col. Supp.
Lloyd, Aimie & Co., Ltd. (Euxesis) .. 26	Ripplin, A. J., Ltd. (Drugs) .. ii	Towle, E. T., & Co., Ltd. (Penny-royal Pills, &c.) .. xviii
London College of Pharmacy .. 43	Rivista Italiana delle Essenze e Profumi .. ix	Townsend, James, & Sons (Poisons Registers) .. 50
Magnus, Mabee & Reynard, Inc. (Ess. Oils) .. 20	Roberts & Co. (Ferrigen) .. xxiv	Town Talk Polish Co. (Polishing Cloths, &c.) .. 38
Mandall & Co., Ltd. (Licorine) .. xvi	Robinson & Sons, Ltd. (Boxes) .. 18-xi	Treble & Co. (Shopfittings) .. 44
Marie Antoinette Co. .. 24	Roebuck's Advertising Service (Wanie Blades) .. 34	Tyrer, T., & Co., Ltd. (Bismuth Salts) vii
Marshall, C. F., & Son .. 44	Rouse & Co. (Odoeptol, &c.) .. xii	United Chemists' Association, Ltd. (Iodised Throat Lozenges) .. xv
Mathews, D., & Sons (Shopfittings) 44	Rowland, A., & Sons, Ltd. (Macassar Oil) .. 26	United Glass Bottle Manufacturers, Ltd. (Medical Bottles) .. xxxvii
Mavlanakar, K. B. (Sandalwood Oil) 20	Rudduck & Co. (Shopfittings) Col. Supp.	Viscose Development Co., Ltd. (Bottle Cappings) .. xxxix
Maw, S., Son & Sons, Ltd. .. 11	Sakabe & Co. (Toilet Brushes) .. 44	Ward & Goldstone, Ltd. (Electrical Goods) .. 37
Mawson Filter Co. (Optimus Filters) 36	Saville Perfumery, Ltd. (Perfumery) 29	Warne, W., & Co., Ltd. (Surgical Goods) .. xxxiv
May, Roberts & Co., Ltd. (Christmas Goods) .. xlii	Schimmel & Co. (Perf. Prods.) .. 21	Washington Chemical Co., Ltd. (Pat-tinson's Magnesia) .. ix
Midgley & Parkinson, Ltd. (Yeast Preps.) .. xii	Scholl Manfg. Co., Ltd. (Toe-Flex) xxxii	Wedgwood, Josiah, & Sons, Ltd. (Mortars and Pestles) .. Leader Page
Morny Frères, Ltd. (Toilet Preps.) Cover	Schutze, F., & Co., Ltd. (Soothers) xxxi	Westminster College of Pharmacy .. 45
Mosans Quinine Pessaries .. xxxii	Scruton, O., & Co. (Nurse Harvey's Mixture) .. 36	Wheeler & Huisking, Ltd. (Liquorice) x
Mulford, H. K., Co., Ltd. .. xvii	Scurr, C. A. (Optical Tuition) .. 43	White, A., & Sons, Ltd. (Chemicals) iv
Murray, S., & Co., Ltd. (Bottle Cap-ping) .. 41	Shadeine Co. (Hair Dyes) .. 32	White, Tomkien & Courage, Ltd. (Peppermint Oil) .. 21
Myosotis, Ltd. (Perfumery) .. 27	Shawyer, A. J., & Co. (Developing) 43	Wigglesworth, Ltd. (Packed Special-ties) .. 1
Neill, J., & Co. (Sheffield, Ltd.) .. 34	Sherley, A. F., & Co. (1928), Ltd. 42	Wilkinson, S. W., & Co. (Ointment Mills) .. 40
Newball & Mason (Ginger Wine Essence) .. xxviii	Shoppee, A. C., Ltd. (Weighing Machines) .. 50	Willows, Francis, Butler & Thomp-son, Ltd. (Infusions, &c.) .. vi
New Era Treatment Co. ("Elasto") 5	Sier, Voss & Tones .. Leader Page	Winchester Manfg. Co., Ltd. ("Wimaco" Surgical Goods) .. xxxiv
Onzo, Ltd. (Ointment) .. xxii	Singleton & Cole, Ltd. (Wholesale Tobacconists) .. 36	Wright, John, & Co. (Gas Radiators) 37
Oppenheimer, Son & Co., Ltd. (Robo-leine) .. 19	Smith & Co. (Fly Catchers) .. 36	Wright, Layman & Umney, Ltd. (Cod Liver Oil and Malt) .. Cover
Orridge & Co. (Valuers, &c.) .. Col. Supp.	Smith, Martin H., Co. (Ergoapiol) .. xxii	Yadil Products (1925), Ltd. .. xxiv
Owbridge, W. T., Ltd. (Lung Tonic) xxvii	Smith, T. & H., Ltd. (Chemicals) .. v	Yonlodon, F. (Bottles) .. xl
Parfums Marcel Guerlain, Ltd. .. 25	Soc. Voor Chemische Industrie .. x	Zeal, G. H., Ltd. (Clinicals) .. xxxv
Parkinsons, Ltd. (Kilkof) .. Leader Page	Solazzi (Liquorice) .. vi	Zeiss, Carl (London), Ltd. (Reflector Lamps) .. 41
Payne, P. P., & Sons (Advertising Tape) .. xxxviii	Solport Bros., Ltd. (Watersprite Face Cloths) .. 34	
Perken, Son, & Co., Ltd. .. xxxiii	Sorbo Rubber Sponge Products, Ltd. 10	
Peronia Co., Ltd. (Toilet Preps.) .. 31	Sorpex, Ltd. (Splash Savers) .. 35	
Perry's Powders, Ltd. .. xx	Speer, W. R., & Son (Toothbrushes) 34	
Phosferine (Ashton & Parsons), Ltd. xl	Spicer, E. H., & Co., Ltd. (Elixir of Ephedrine) .. xvi	
Photopress (Developing, &c.) .. 43	Standard Yeast Co., Ltd. .. xxx	
Pierson, Morrell & Co., Ltd. (Aspirin) viii	Sterns, Ltd. (Oils, Petroleum, &c.) xxvi	
Pifco, Ltd. (Electric Lamps, &c.) .. 37	Stevenson, H. E., & Co. (Concentrated Essence, &c.) .. 13	

"BUTTER SCOTCH" MALT & OIL

THE ACME OF QUALITY WHICH KEEPS INDEFINITELY FOR HOME AND EXPORT

IMMEDIATE DELIVERY GUARANTEED; IN ALL PACKS (JARS, CONTAINERS, DRUMS, TINS OR BARRELS)

BUY FROM ACTUAL MALT EXTRACT MAKERS:—

C. TOLKIEN & CO. LTD.

REMOGEN WORKS - - - SILSDEN, YORKSHIRE.

TELEGRAMS: "REMOGEN," STEETON.
'PHONE: 69 STEETON.

LONDON: 'PHONE, 3539 FINCHLEY.

OUR EMULSIONS

are first-class products—never any trace of separation or deterioration

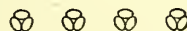
As a pharmacist, you know that only the most up-to-date machinery and finest ingredients can make really good emulsions. We use both. In fact, we have just installed additional plant to cope with ordinary demands and the repeat orders of pharmacists who have found how profitable and reliable "Specialty" Emulsions can be.

Take your full profit from good emulsions this Winter. Write at once for samples and prices and "own name" label terms.



'Specialty'

*products bring prestige
and profit to your pharmacy*



ANGLO-AMERICAN OIL COMPANY, LIMITED.

Specialty Department:

Albert Street, Camden Town, London, N.W.1.

Telephone: Hampstead 8066-7-8.

Telegrams: "Nufinjol, Norwest, London."



*Sell Sunshine!
We'll see you
about it
later*

"BRITISH QUAIN SUNLIGHT, LTD., 20-21 LAURENCE POUNTNEY LANE, E.C.4."

National Press Advertising Campaign now backed up by **FILMS** *featuring* A Leading British Star

**NEW
MIX**

Fill in
the
Coupon
below
for
information
regarding
film
showing
in your
district

IN addition to the extensive educative advertising campaign now appearing in the leading press of England, Scotland, Ireland and Wales. The first of a series of interesting New-Mix films have been completed, featuring a leading film star. These should prove of absorbing interest to the public and greatly stimulate New-Mix sales in each district where they are shown. While the press advertising is national, these films, if you stock New-Mix, will be *your* advertising—a personal link between New-Mix and your establishment. Write Sales Manager for information regarding Propaganda sampling of Dental profession and window display bonus terms.



COUPON

Please send me particulars of NEW-MIX film showings in my district.

Name

Address

.....



THIS WINSOME LASS—

is doing what
allwise persons
do—and what
your custo-
mers will
certainly do if given
the opportunity—

WATCHING HER WEIGHT

*Do you provide
the opportunity?*



THE

Autoway

requires no personal attention. Ladies resent
personal attention—when on a weighing machine.

Your customers will pay for your

Autoway

Will you allow them?

No modern Chemist's premises are complete
without this handsome and interesting machine.

*Installation terms are made easy. Send
for our system of extended payments.*

Autoway Co.

13 WELLINGTON STREET,
GLASGOW.

'Phone :
Cent. 59.

Telegrams:
Autoways.

Agents everywhere, including—

London, Liverpool, Manchester, Sheffield, Leeds, Newcastle,
Leicester, Nottingham, Northampton, Cardiff, Portsmouth,
Belfast, Dublin.



SORBO SPONGES

*are good stock to handle.
Popular, profitable & ready selling.
Improve with usage.*

ALL BRITISH

SORBELLE

The popular-price Sorbo.
ANOTHER SURE MONEY-MAKER.

And other profitable lines are

SORBO

Insoles for foot comfort
Bath Mats
Bath Straps
Complexion Gloves

ASK US ABOUT THEM.

Sorbo

RUBBER - SPONGE PRODUCTS LTD.

Sorbo Works - - Woking - - Surrey

Telegrams: "Sorbo, Woking"

Telephone: Woking 966 (2 lines)

Maw's Page



"Meritor" Shavers



British-made.

Guaranteed.

Silvered Wire Bound.

Doubly Cemented.

Two Patterns.

Three Sizes.

Three Fillings.

Attractive packing and display material.

50% profit on cost.

Sold to pharmacists only.

It pays you to stock, to display and to push "Meritor" Shavers—pays you both now and in the future, for every "Meritor" customer is a satisfied customer and comes again. See page 51 of Maw's List for prices of "Meritor" Shavers.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



PYRAMIDS

For Coughs

THE ILLUSTRATION conveys an exceedingly poor impression of the red, white, black and yellow display which is sent free with each order for 28 lbs. and up. Fifty 4oz. cartons in the same colours and style come with each 28 lbs.



Per lb.	-	1/8
Per lb.	-	1/7
8 lbs.	-	1/6
16 "	-	1/5
28 "	-	1/4 1/2
56 "	-	1/4
112 "	-	1/4

A sample and carton will be gladly posted on request.

"PYRAMIDS FOR COUGHS" are beautifully moulded triangular pyramids of delicately textured pastille base, carrying an honest and good "Cough" formula—a combination of some of the earliest known remedies.

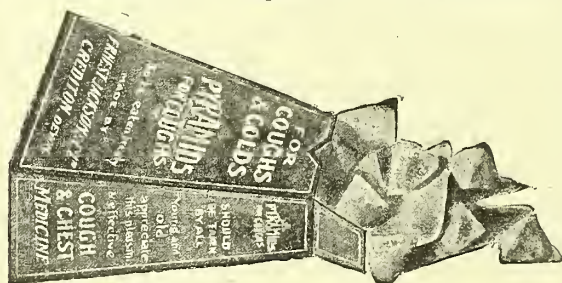
Patently an article of worth, yet PYRAMIDS sell at the magic price, 2d. per oz., 7 1/2d. per 4 ozs.—magic because, while even 2 1/2d. is "prohibitive," 2d. makes for easy sales, and in 1/4 lb. and 1/2 lb. lots.

"PYRAMIDS for Coughs" are so far in front of the host of "Cough Jubes" as to constitute a new era, in which the indifferently medicated and roughly finished "Jubes" of recent years find little place.

"PYRAMIDS for Coughs" are as old, almost, as the hills, in composition, yet as novel as "Radio" in their presentation.

PYRAMIDS bring pyramid-shaped cartons and a pyramid-shaped show screen, while everywhere, on screen and cartons, appears a bold red Pyramid standing out of the solid black, and fronted by the slogan (in yellow) "PYRAMIDS FOR COUGHS."

A glance fixes the PYRAMID sign on the memory. EIGHT SECONDS suffice to read the whole powerful story, for a PYRAMID show screen is a model of studied display.



ERNEST JACKSON & CO. Ltd.

LONDON OFFICE,

Piccadilly Place,

Crosby Row,

Boro', S.E.

'Phone : HOP 2668

Makers of

LOZENGES, PASTILLES AND COMPRESSED TABLETS

CREDITON, DEVON

Telephone:

CREDITON 10.

Telegrams:

JACKSON,
CREDITON.



SYNTHETIC OTTOS

A BONUS OFFER

To introduce these beautiful Perfumes to those Chemists who may not have previously used them, we offer to include, **free of charge**, either one ounce Synthetic Rose, "Zinyl" (13/6 oz.), or one ounce "Mysotyl" (12/6 oz.) in an order for Synthetic Ottos, amounting to £3 and to send

Postage paid to any part of the World.

Cash should accompany the order.

For prices, please refer to C. & D. Diary.

CONCENTRATED ESSENCES

"4 Medals" Brand

FOR LIQUEURS & SPIRITS

One volume of Concentrated Essence added to 100 volumes of Syrup and Spirit (full directions given) will produce the corresponding liqueur, almost indistinguishable from the genuine liqueurs, and at a nominal cost.

Curagoa-- - - 5/- oz.

Kirsch - - - 5/- "

Kümmel - - - 5/- "

Maraschino - - - 5/- "

*Benedictine Type 5/- "

Cognac - - - 10/- "

(1 Vol. to 200 Volumes)

Jamaica Rum - - 5/- "

Scotch Whisky - - 5/- "

Gin (Hollands) - - 5/- "

Vermouth- - - 5/- "

*Chartreuse Type 5/- "

* These are Registered Titles.

H. E. STEVENSON & CO.

Wholesale Druggists and Manufacturing Chemists,

122 GREAT SUFFOLK STREET, LONDON, S.E.1

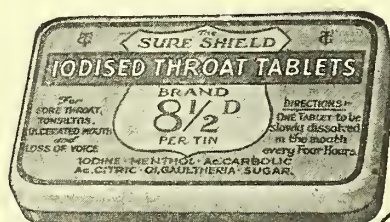
LONDON DEPOT:
1 SWAN STREET,
MINORIES, E.1

Telephone: ROYAL 8111.

THE SURE SHIELD



IODISED THROAT TABLETS



8½d. Tins

5/6 per doz. 63/- per gross

1s. 3d. Tins

9/6 per doz.

108/- per gross

THOS. GUEST & CO., LTD., CARRUTHERS STREET,
 ANCOATS, MANCHESTER.

WRITE AT ONCE FOR RANGE OF SAMPLES AND PRICES.

FOOT BATH SALT SKILLETS

1/- Rheu Ped. 1/- Renal. 1/3 Kura.. .. Average cost when packed, 24/- gross
 Morning Salt Cartons, costs to pack, 16/6 per gross Retail 4½d.
 1/6 Vigor Tonic Outfit, 8 oz. size. A proved seller Costs 20 pack, under 7/- doz.
 1/6 Bismuth, Magnesia & Soda Mint Elixir Outfit. A sensible *recipe*. Costs to pack, under 7/- doz.
 The "Best Seller" "Indigestion Mixture" on the market.

Showcards and Window Bills supplied with above Specialities.

Influenza Mixture Cartons and Showcards Price 1/3 or 1/6
 Supplied with Name and Address imprinted in Small or Large Quantities.

SPECIAL LINES.

Slip Labels.. .. .	2/6 per 1,000, 5,000 one kind at 2/3
715 White Demy, Glazed Surface	6 reams at 4/- .. 10 reams at 3/9
2416 Yellow Wove Demy	5 reams at 6/6 .. 10 reams at 6/-
1325 Toilet Rolls Thin M.G. Sulphite.. ..	46/- per gross .. 2 gross at 44/-
	Sell at 6½d., 3 for 1/6.
467 Manilla Toilet Rolls	65/- per gross .. 2 gross at 63/-
	Sell at 9d., 4/3 ½ dozen.
Crepé Sulphite Rolls	30/- gross
	Sell at 4½d., 3 for 1/-.

SHOWCARDS FREE.

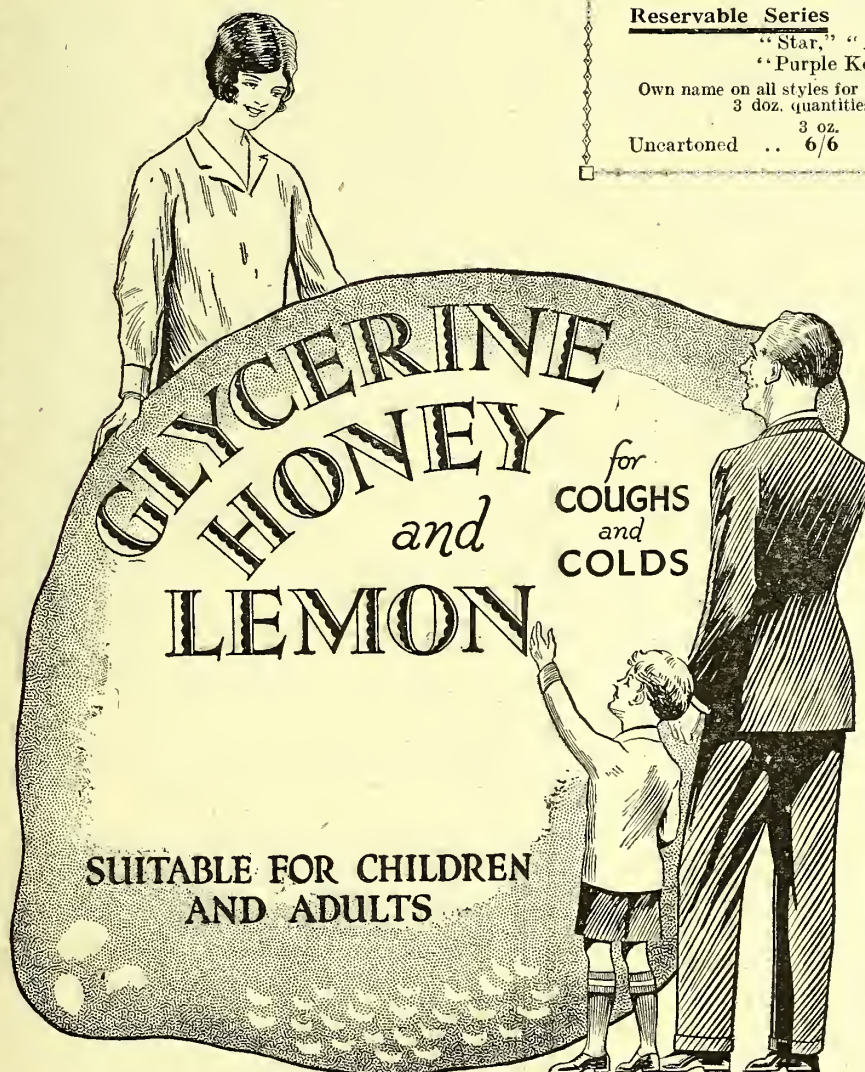
ALL MONTHLY ACCOUNTS SUBJECT TO 5%

SERVICE, QUALITY AND PRICES RIGHT.

LARGE STOCK OF STOCK LABELS FOR ALL PREPARATIONS.

SUTTLEY & SILVERLOCK, Ltd. The Chemists' 92 Blackfriars Rd., London, S.E.1
 Printers

YET ANOTHER FINE DISPLAY



The Cough Remedy
of the Year.

GLYCERINE HONEY & LEMON

Choice of seven styles.

Style A Red and green label on
lemon coloured paper.

Style B Letterpress on tinted
panel.

Style C Lemon cut-out label with
script lettering.

Reservable Series "Mortar,"
"Star," "Anchor," or
"Purple Key."

Own name on all styles for not less than
3 doz. quantities.

	3 oz.	6 oz.
Uncartoned ..	6/6	8/6 dozen

This
showcard
is printed
in full
colours
with space
for selling
price

Size

12 $\frac{1}{2}$ " X 10 $\frac{1}{2}$ "

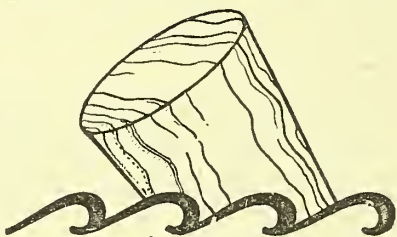
HAVE YOU
ADOPTED THE
"RESERVABLE
SERIES"?

EACH HAS A
SPLENDID
FULL - DRESS
WINDOW DIS-
PLAY.

AYRTON'S of LIVERPOOL

Write for full
particulars.

The Bobbing CORK



SOME corks bob up and down on the ocean of quality. You are never quite sure what the next delivery will be like. Armstrong Corks are graded so that you know exactly the quality of each cork. These grades are your safeguard: (A), (B), and XXX, XX and X. They are proof that you are paying the right price for the right cork.

And remember — Armstrong Corks are guaranteed by the firm with a 65 years' reputation to maintain.

Write NOW for Samples
and Quotations.

**ARMSTRONG
CORK CO. L^{TD}.**

306 Sardinia House
KINGSWAY
LONDON
W.C.2

Collapsible Tubes



You can be sure of
getting
**The Best Service
and Delivery,
The Highest Quality & Finish
The Lowest Current Prices**

FROM

Betts & Co. L^{td}
1. Wharf Rd., City Rd.
London N.1.

Established 1857.



EMULSION BLACK CURRANT and GLYCERINE PASTILLES

WHEN you sell these Pastilles you can guarantee that they contain the entire medicinal qualities of Black Currant Juice, with all its natural flavour. The juice is extracted by a special process which preserves its delightful and quite inimitable "tang" and every pastille is as full of fruit as is pharmaceutically possible.

Your customers will be able to recognise this for themselves from the first taste and they will tell others, as is ever the way with articles of first-class quality. "Emulsion" Black Currant and Glycerine Pastilles only need introduction, they will make headway on their own merits. They are certainly one of the most profitable lines to which you can devote your interest.

A striking Window Display is now available
Illustration and full particulars on request

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool.

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

C 766

COPYRIGHT

CARTONS

We have the very latest machinery for producing Cartons, either plain, in single colour, several colours and gold, or plain embossed.

C Specialists in High-class Labels and general Printing for Chemists, Druggists, and kindred trades. Can we send samples of our work? Let us know your requirements. *Telephone: Mayfair 6486*

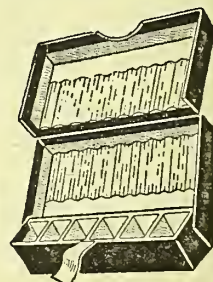
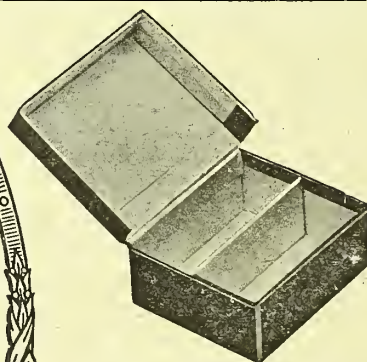
GEO. PULMAN 24-27, THAYER STREET,
AND SONS, LIMITED. LONDON, W.1
AND AT WEALDSTONE, MIDDLESEX.



**ROBINSON'S of
CHESTERFIELD**
for
**CARDBOARD
BOXES**

ROUND · OVAL · SQUARE · FOLDING

ROBINSON & SONS LTD.
CHESTERFIELD & LONDON



CHEMIST BOXES

We specialise in the manufacture of small boxes for chemist use, and our range of these boxes is large and varied.

May we have the opportunity of quoting you for your requirements when next you are in the market?

ROBINSON & SONS, Ltd.

Manufacturers of ROUND, OVAL, SQUARE AND FOLDING
CARDBOARD BOXES,

CHESTERFIELD

£6 of ROBOLEINE for £5

Any chemist who undertakes to make a fortnight's window display of Roboleine and places an order for £5 net value (made up in any sizes) will receive an additional £1 worth free, together with a supply of samples, literature and display matter. The consignment will be sent carriage paid, in a free case.

Roboleine has no opposition to overcome. It has been on the market 22 years and has an established position with Doctors and with the public. And this winter it is being advertised as never before, in all the great national dailies, in the leading provincial newspapers and in a long list of Women's papers. 127,684,000 large advertisements will appear between the beginning of October and the end of April.

Roboleine is going to be a best-seller this winter. Now is the time to make sure and get a good share of the increased trade.

Roboleine

CONCENTRATED NOURISHMENT
IN EVERY SPOONFUL

SEE THAT YOU GET MYSORE GOVERNMENT SANDALWOOD OIL

DISTILLED FROM SANTALUM ALBUM, LINN.

THIS IS YOUR  GUARANTEE

Send all enquiries to :

Telegrams :

"Ekdum," Phone,
London.

K. B. MAVLANKAR
98 Great Tower St., E.C.3

Telephone :
Royal 4987



MOHAWK OIL PEPPERMINT

Single Distilled American
Redistilled, U.S.P., American

Preferred and specified by manufacturers
as products of unexcelled purity and
delicacy of flavour.

MAY WE SUBMIT SAMPLES.

EXPORTERS OF CLARIFIED BALSAMS

Copaiba—Fir, Oregon—Fir, Canada

MAGNUS, MABEE & REYNARD, Inc.

American Essential Oils

32 CLIFF ST., NEW YORK, U.S.A.

Sole Selling Agents for the British Isles :—

OLD STRAND CHEMICAL & DRUG CO., Ltd.

41 Great Tower St. (22 Beer Lane), LONDON, E.C.3

Telephone : Royal 8737 '2 lines.

Chemical Works "Flora"
DUBENDORF, ZURICH - SWITZERLAND

Manufacturers of

SYNTHETIC & AROMATIC CHEMICALS

SAMPLES ON and
APPLICATION.

CHLOROPHYLL
OIL AND SPIRIT - SOLUBLE.

STOCKS HELD
IN LONDON.

Samples and particulars from—

CHAS. ZIMMERMANN & CO. (Chemicals), LTD.

St. Mary-at-Hill, London, E.C.3

To-day's best investment—a case of

R.S.M.

(Reigate Standard Mint)

English re-distilled and blended PEPPERMINT OIL



White, Tomkins & Courage Ltd.
Reigate, Surrey

Telegrams : *Esswhite, Reigate.*

Telephone : *Reigate 480.*

Schimmel & Co.

A.G.

PUMILIONIS PINE OIL

CINNAMON BARK OIL

Genuine

SIBERIAN PINE OIL

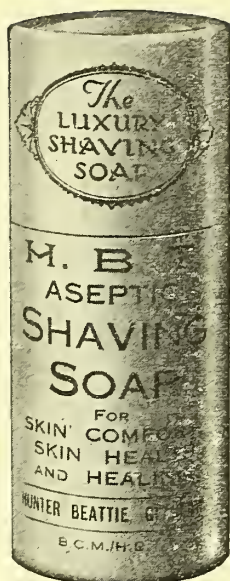
PEPPERMINT OIL

All grades

Sole Distributors for United Kingdom :

Messrs. FREDK. BOEHM, LTD., 17 Jewry Street, LONDON, E.C.3.

Scottish Office : 140 West George Street, GLASGOW.



*Made with the
expressed juices
of living plants.*

Made neither in FRANCE nor SPAIN but in SCOTLAND—

The land of the mountain and flood—The land of the heather and the exhilarating Northern air—These soaps will justify your recommendation. Your customers will come back for more and thank you.

These new Health and Healing Soaps work on an entirely new principle. They do not kill germs, but so cleanse and promote the health of the skin tissues that disease germs cannot live in them.

This is the sensible and scientific way of dealing with germs.

“The Proof o’ the Puddin’s the Preein’ o’t”

Try this special offer. Every purchaser of parcel detailed below will be given ONE DOZEN H.B.T. ASEPTIC SHAVING SOAP FREE. SPECIAL BONUS EXPIRES 30th NOVEMBER. DON'T MISS YOUR OPPORTUNITY.

A Special Offer

12 Boxes—3 Tablets— H.B.T. ASEPTIC TOILET SOAP, 2/3	£1 0 3
3 doz. Tablets—in wooden box—H.B.T. ASEPTIC TOILET SOAP, 9d.	1 0 3
1 doz. H.B.T. ASEPTIC SHAVING SOAP, 1/-	9 0
net	£2 9 6

This parcel will be sent Carriage Paid to any address in Great Britain. Send direct or through your usual Wholesale House. Don't delay. Orders executed in rotation.

The Cost of this parcel to you is £2 9 6. Your profit is £1 8 6.

HUNTER BEATTIE
25 MONTEITH ROW,
GLASGOW, S.E. D.1.

Note the British Commercial Mono-mark on each Tablet, B.C.M./H.B.T.

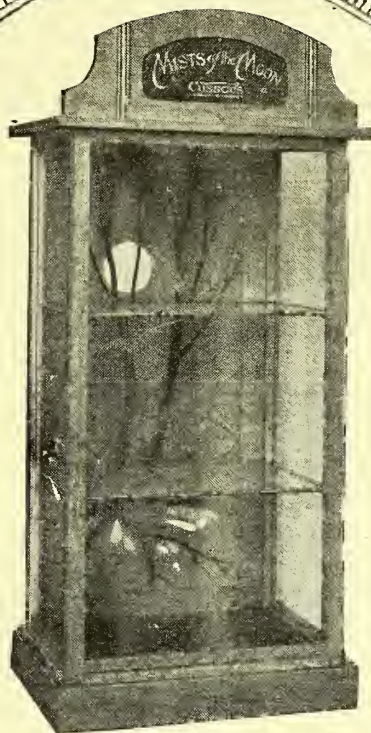
Sole Agents for Northern Ireland:
SHAW & JAMISON LIMITED, BELFAST

Stocks of H.B.T. Aseptic Soaps are held in London by:
SANGERS, 42a Hampstead Road, N.W.1, and
FRANCIS NEWBURY & SONS, Ltd., Charterhouse Sq., E.C.1





A perfect display
of "Mists of the
Moon" in a
delightful setting.
The showcase
measures 3 feet
high, 17 inches
wide, 12 inches
deep.



A beautiful show-
case, elegant in
appearance, with
glass front and
sides, two glass
shelves and richly
coloured hand-
painted back-
ground.

Free with orders of £10

(Supply strictly limited)

This charming showcase is supplied free with assorted orders
of £10 and upwards for the various items in our suite of

**"Mists
(of the)
Moon"**
Toilet Luxuries

Chemists wishing to take advantage of this
offer should place their orders at once
as all applications for showcases will
be dealt with in strict rotation. Only one
showcase can be supplied to any Pharmacy.

Write for our latest Catalogue
and Price List.

Cussons
KERSAL VALE, MANCHESTER

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP	10/-	1/-
A complexion soap.		
PROLACTUM	10/-	1/-
For the lips.		
PARSIDIUM JELLY	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM	22/6	2/6
A dressing cream.		
BORANIUM	22/6	2/6
A hair tonic.		
CLEMINITE	22/6	2/6
For a face lotion.		
COLLIANDUM (Powder & Solide.)	22/6	2/6
For a face tint.		
PERGOL	22/6	2/6
A deodorant.		
TEKKO PASTE	22/6	2/6
Camphor cream.		
STALLAX	13/6	1/6
For a shampoo.		
JETTALINE	22/6	2/6
For clearing the skin.		
PHEMINOL	31/6	3/6
A depilatory.		
MENNALINE	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX	18/-	2/-
A face cream.		
STYMOL	31/6	3/6
For oily complexions and blackheads.		
SILMERINE	36/-	4/-
Hair-curling fluid.		
BARSYDE	22/6	2/6
Dandruff eradicator.		
TAMMALITE	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM	22/6	2/6
For whitening the hands.		
COCONOIDS	31/6	3/6
For figure development.		
SIPOLITE	18/-	2/-
A new depilatory.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES .. 36/- 4/-

For obesity.

SOFT PALERIUM .. 45/- 5/-

For wrinkles.

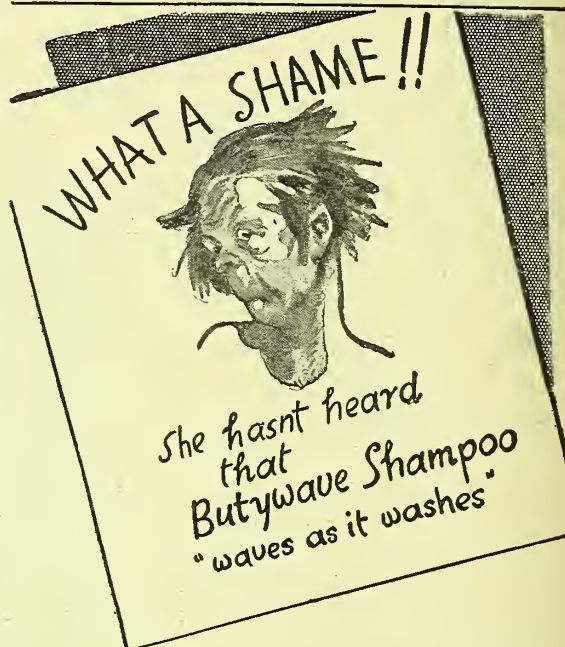
LIQUID NAIL POLISH .. 10/- 1/-

Brilliant and lasting.

Stocked by ALL Wholesale Houses.

FOREIGN AND COLONIAL DEPÔTS AND AGENCIES.

South Africa: LENNON, LTD., Cape Town, etc.
SIVE BROS. & KARNOVSKY, LTD., Johannesburg.
India: FRAMJEE & SON, Bombay.
A. I. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
Denmark: KARL SCHULTZ & CO., Copenhagen.
Irish Free State: MAY, ROBERTS & CO., LTD., Dublin.

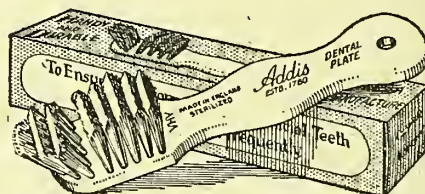


A crowd is good for business. This poster (size 20" x 15") on your window brings a crowd. Sells Shampoos like hot cakes. $\frac{1}{2}$ gross costs 21/7. Profit 17/5. Write to-day to:—

THE BUTYWAVE COMPANY
10 Tachbrook Street, LONDON, S.W.1.
Tel.: VICTORIA 5554.

Addis
ESTD 1780

WINGED
DENTAL
PLATE



BRUSH WORKS, HERTFORD
ENGLAND.

MORGAN'S POMADE

A genuine preparation which performs all that it claims—namely, to restore grey and faded hair to its original colour, to strengthen the hair against further danger of becoming dry and thin, to remove and prevent the recurrence of scurf and all unhealthy conditions of the scalp.

Thirty-five years' solid reputation. On the list of the P.A.T.A.

Retail 1/9 per pot; 3/3 per pot.

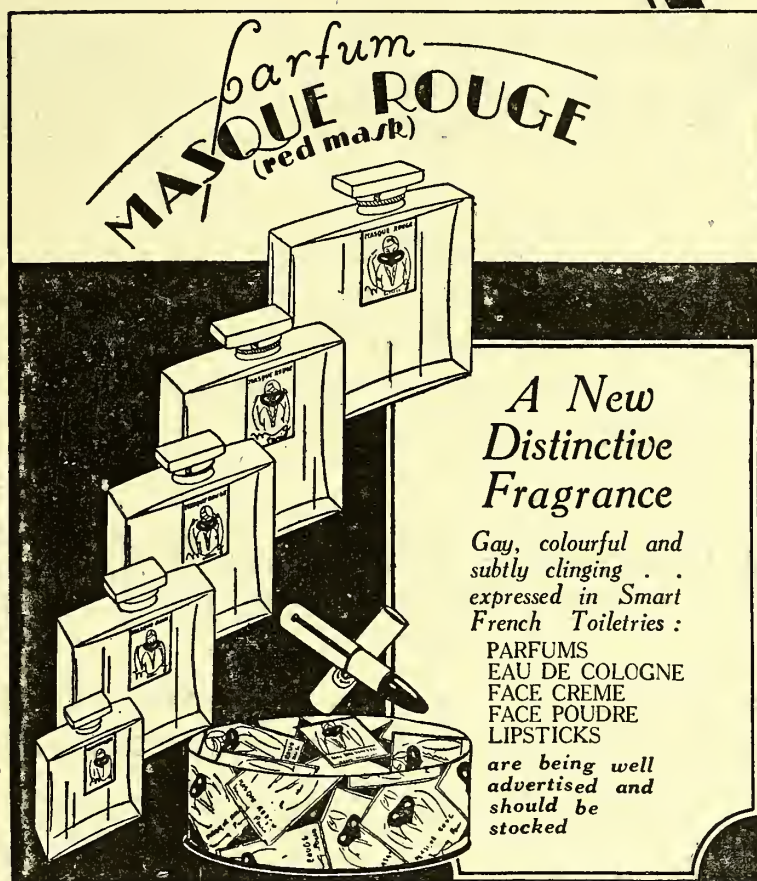
Wholesale 14/- per doz.; 26/- per doz.

1-lb. jars for Saloon use at 6/3 per jar.

Obtainable from all the leading Wholesale Houses, or direct—
THE MARIE ANTOINETTE CO. 149 JUNCTION ROAD LONDON, N.19

(Note New Address)

(2)



Parfum
MASQUE ROUGE
(red mark)

*A New
Distinctive
Fragrance*

*Gay, colourful and
subtly clinging . . .
expressed in Smart
French Toiletries :*

PARFUMS
EAU DE COLOGNE
FACE CREME
FACE POWDER
LIPSTICKS

*are being well
advertised and
should be
stocked*

AN ENORMOUSLY INCREASED TRADE

has made it necessary for us to open a
LONDON DEPOT, which will enable us
to give speedy and efficient service to
our rapidly enlarging circle of customers—
On receipt of a post card we shall be pleased
to send our new Price List, with details of our
GENEROUS BONUS OFFER

“MASQUE ROUGE” TOILETRIES

PARFUMS MARCEL GUERLAIN, LTD.

REGENT ARCADE HOUSE - 252-260 REGENT STREET
LONDON, W.1.

WIRES: MASQUE ROUGE, LONDON

Factory—Suresnes, Paris

NO CONNECTION WITH ANY FIRM OF SIMILAR NAME

A. S. LLOYD'S EUX-E-SIS.

**For Shaving
without
Soap, Water,
or Brush.**

CAUTION.

**The Labels on GENUINE EUXESIS bear
two signatures—A. S. Lloyd, in black
ink, and that of his Widow, Aimée
Lloyd, in RED. Refuse any other.**

Sole Manufacturers
and Proprietors:

AIMÉE LLOYD & Co., Ltd.
23 PANTON STREET, HAYMARKET, LONDON, S. W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).



ALLWOODS' CARNATION PERFUME AND TOILET REQUISITES

Of
Superlative
Quality

Daintily
Packed

Liberal
Discount

Good show matter.
Steady advertising.
Carriage paid.

Produced and
marketed by
the World's
leading growers
of Carnations.

Write for Trade Prices and full information to:—

Allwood Bros

The Leading
Carnation Raisers
and Specialists
in the World.

HAYWARDS HEATH, SUSSEX

Tried & Proved

Rowland's Macassar Oil is no new preparation; it has been used all over the world for more than 135 years and everywhere it is held in the highest esteem. It is guaranteed to

contain no
injurious
substance

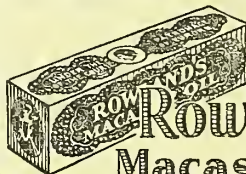
P.A.T.A.

3/6, 7/-

& 10/6

Red for
dark hair;
golden for
fair or
grey hair.

From all
Wholesalers



**Rowland's
Macassar Oil**

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1

RM4T

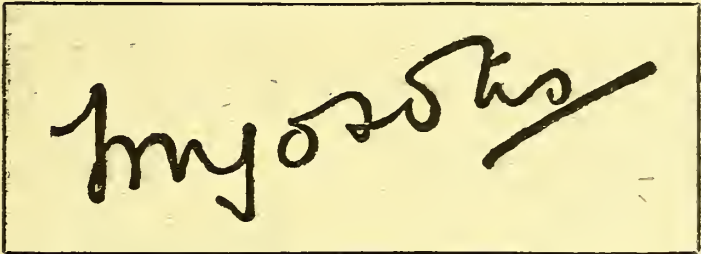
G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

**BEST
BRITISH
BRUSHES**

Please write for full Particulars to—

75 FARRINGDON ROAD, E.C.1.



The Myosotis Perfumes are the great
attraction of the coming

XMAS SEASON



Lilas	-	-	-	4/-	10/6	21/-
Merveilleuse	-	-	-	4/-	10/6	21/-
Lily of the Valley				4/-	10/6	21/-
Wallflower	-	-	-	4/-	10/6	21/-
Gardenia	-	-	-	5/6	12/6	25/-
Val Fleuri	-	-				63/-

Subject to the usual terms.

Place your orders early to ensure supply

Apply for Terms to—

MYOSOTIS LIMITED

7 Hanover Square, London, W.1



**DO YOU STOCK
THE FOLLOWING
"QUICK SELLERS"?**

- "HARLENE" for the Hair
- "CREMEX" Shampoo Powders
- "UZON" Brilliantine
- "ASTOL" for Grey Hair
- "JUNOFLORIS" SPRING BREATH
TABLETS
- "JUNOFLORIS" Dentifrice
- "ASTINE" Vanishing Cream
- "ASTINE" Tooth Cream
- "ASTINE" Shaving Stick
- "ASTINE" Nail Cream
- "HARLENE" Hair Fixative
(For Gentlemen)
- "HARLENE" Wave Setting Lotion

Always In Full "Sale"!

EDWARDS' HARLENE TOILET PREPARATIONS

There is never a lull in the "Trade Wind" that keeps these World-Famous Toilet Preparations in full "Sale." The Excellence of the Products themselves, coupled with the Extensive and Continuous Advertising Campaign, keeps the "Trade Wind" always at full strength.

Thousands of new customers are introduced *every week*!

No Chemist or Store can afford to be without these World's Record Sellers!



For Full Particulars, Terms, etc., write to:—

EDWARDS' HARLENE LTD.

20, 22, 24 & 26 LAMB'S CONDUIT STREET, LONDON, W.C.1

THE PREDOMINANT FEATURE OF THE XMAS SEASON



BEAUTY COFFRETS

=====

THE enormous demand for these exceedingly handsome sets has temporarily overtaken production. All orders in hand are being dealt with as speedily as possible. In view of the exceptional circumstances we would ask the indulgence of our customers for the unavoidable delay in the execution of their orders for these lines.

=====

IMPORTANT.—To ensure supplies reaching you in time for the Xmas Trade, orders should be posted to us NOW.



June XMAS COFFRETS

No.	52	Retail each	3/-	-	Per doz.	24/-
"	53	"	7/-	-	"	56/-
"	54	"	7/6	-	"	60/-
"	55	"	6/-	-	"	48/-
"	56	"	10/6	-	"	84/-
"	57	"	2/6	-	"	20/-

SAVILLE PERFUMERY, Ltd. - - WATFORD, HERTS.



Some reasons

WHY YOU SHOULD SELL

Nuctone



- 1 *NUCTONE* is safe ; guaranteed free from para or any other harmful ingredient. It is antiseptic, and cannot possibly harm the most sensitive skin.
- 2 *NUCTONE* is the ideal home-treatment ; gradual in its action, easy to apply, and giving natural, permanent results that are always satisfactory. It is the only modern preparation for hair colouring that enables the hair to be treated in every way as before recoloration.
- 3 *There are only 4 grades to stock* ; two for fair hair and two for dark—Nuctone Eclairé and Eclairé Concentré, Nuctone and Nuctone Concentré.

Nuctone

for GREY HAIR

Order through your usual wholesaler or from
J. C. GAMBLES & CO., LTD.
211 Blackfriars Rd., London, E.C.1

Manufactured by :

Stewart, Goodall & Dunlop, Ltd.
4 Dering Street, London, W.1



THE ORIGINAL
:: AND ::
STILL THE BEST

JACKEL'S
CREAM
WITHOUT GREASE
FOR THE HAIR

SOLD EVERYWHERE.

1/6 PER BOTTLE 2/6

Jackel's Cream has now been over 40 years on the market and enjoys a steady reliable sale. Once a customer buys Jackel's, imitations have no appeal because Jackel's is still the best.

11/6 and 18/- per dozen.
Retailing at 1/6 & 2/6 per bot.

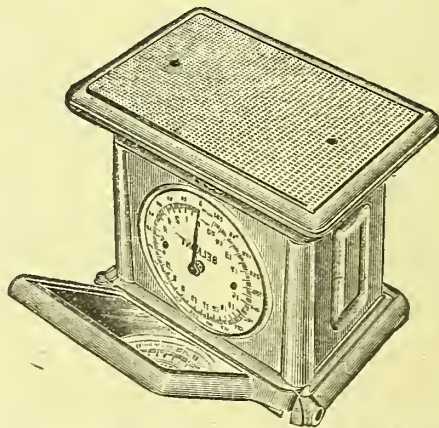
BIG PROFITS ON THE NEW SHAMPOO.

SHOWCARDS AND PARTICULARS FROM
YOUR WHOLESALE HOUSE.

JACKEL et CIE (of Paris) Ltd.
GLASGOW.

THE "BELMONT"

PERSONAL WEIGHING MACHINE
BRITISH MADE



Weights from 1 lb. to 20 stone. Automatic. No Weights required. Weight of machine 20½ lbs.

EXPORT PRICE 22/6 Cases free F.O.B. LONDON
(Smallest number shipped six machines.)

This machine can be exported to ANY COUNTRY IN THE WORLD where weighing machines are admitted

ALBERT C. SHOPPEE, LTD.
(Wholesale and Export only)
Belmont Street, Chalk Farm, LONDON, N.W.1.

DO YOU WANT TO SELL YOUR OLD STOCK?

If so, you may have decided not to buy any new perfumery this season. A very wise move, but . . .

Aren't you afraid your Christmas window won't be as novel and attractive as usual? It is so difficult to make a fresh-looking display with last year's goods.

What about assorting your stock with just a sprinkling of this season's best novelties? Doubtless the idea appeals to you, but how are you going to obtain them without placing your usual order?

That is where we are going to help you. We will send, carriage paid, one each of our most popular display lines. These make up a £2 order. It is only a small outlay, but it may mean the difference between a slack Christmas and a busy one.

Here is our selection, but you may assort your order as you prefer it:—

1 x Lily perfume, slide carton with silk tassel	No. 69c @ 15/- doz.
1 x Wallflower perfume, slide carton with silk tassel	No. 69c @ 15/- doz.
1 x Eastern Poppy, slide carton with gilt tassel	No. 445 @ 18/- doz.
1 x Eastern Poppy Vanity Travelette	No. 450 @ 10/- doz.
1 x Eastern Poppy, stoppered fiancée in carton	No. 416 @ 45/- doz.
1 x Devon Violet perfume and Puff combined	No. 98 @ 30/- doz.
1 x Devon Violets, gilt metal wickered flask in handsome gift carton	No. 99 @ 48/- doz.
1 x Devon Violets, large gilt wickered flask	No. 100 @ 42/- doz.
1 x Wickered Eau de Cologne, 6 oz.	No. 167 @ 7/- each.
1 x Large Lavender Water, in gift carton	No. 149 @ 48/- doz.
3 x Bath Crystals in vases, cartons, three odours	No. 226 @ 24/- doz.
1 x Handsome large Powder Puff in gift carton	No. 613 @ 28/- doz.
1 x High-class Back Puff in beautiful gift carton	No. 605 @ 50/- doz.

This works out at exactly 40/-. The prices are minimum quoted for display quantity. Our terms are nett three months.

POST ORDER
IMMEDIATELY
TO

Peronia

Stoney Street, Nottingham

IT MAY MAKE
ALL THE
DIFFERENCE

PERFUME SPRAYS

POWDER BOWLS

POMPADOUR
PARFUMETTESFANCY TOILET
NOVELTIES**B G**

PERFUME SETS

BOBBETTE SETS
MILITARY BRUSHES

FANCY COMBS

MANICURE SETS

BRIDGEN & GRIFFIN,25 BARTLETT'S BUILDINGS,
HOLBORN CIRCUS, E.C.4

Established 1890.

TILBURY "Fort "
Dental Plate Brush



Made with Extra Stiff Bleached and Unbleached Bristles.

W. R. TILBURY & SON
47 FRAMPTON PARK ROAD, HACKNEY,
LONDON - - - ENGLAND

SHADEINE
For COLOURING GREY HAIR



This popular article is largely advertised and stocked by all Wholesale Houses.

Trial size 8d. per doz.	6/-
1/4 size, per doz.	12/-
2/6 size, per doz.	24/-
3/9 size, per doz.	36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2.

PASTA MACK



A Delightful Necessity.
For BATH & TOILET
Refreshes and Perfumes the Skin.

PASTA MACK 3/6 size 28/- per doz. Boxes (Each containing 8 Large Tablets).
2/- size 16/- per doz. Boxes (Each containing 8 Small Tablets).

Agents: W.M. EDWARDS & SONS,
14-18 Nile Street, City Road, London, N.1.
Phone Clerkenwell 5230, 5231, 5232.
Makers: H. Mack Succrs.; Ulm O/D.

Telephone: Axminster 5.

Telegrams: "Coate, Axminster."

COATE & CO. (Axminster) Ltd.

The London Brush Works, Axminster, Devon.

Estab. 1847.

Manufacturers of Super British Brushes

Our Special "PROPHYLACTIC" Tooth Brushes—

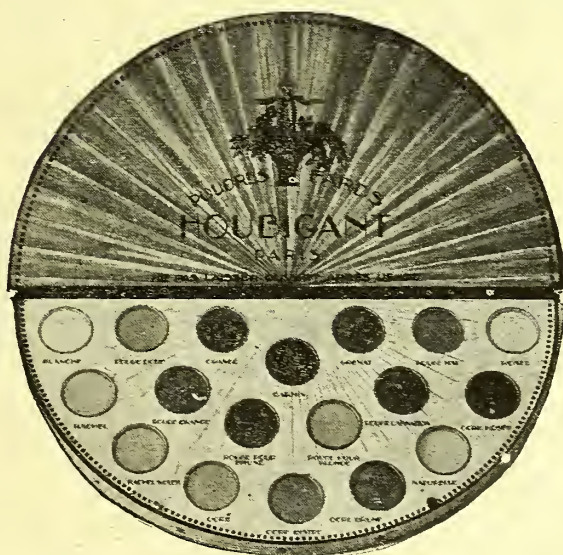
3 row Hard, Medium, Soft, Yellow Hair @	...	...	...	16/-	per dozen
4 " " " " " " "	...	...	...	18/-	" "

Orders for one gross supplied in Cartons with customer's name and address free.
Every Brush Guaranteed. British made by British Labour. Send for our present list of prices.



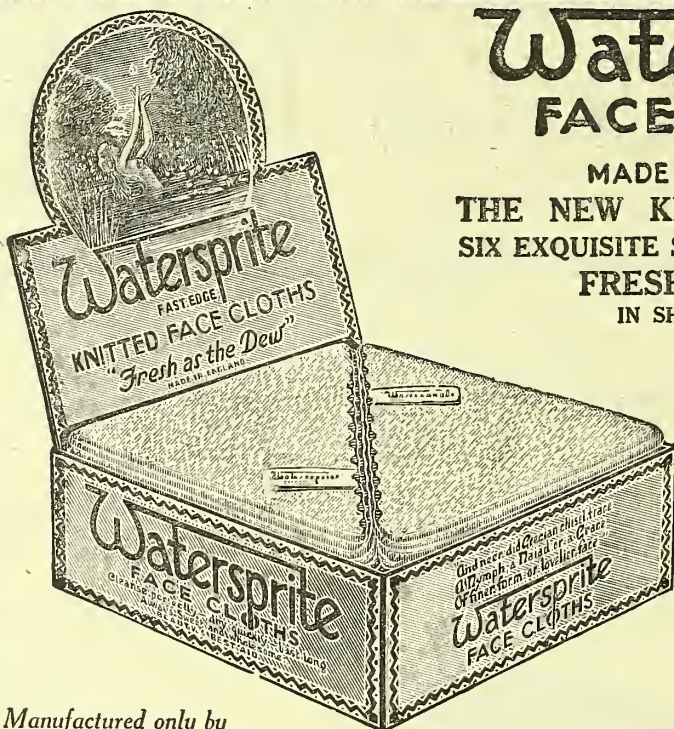
XMAS TRADE

Send for our Supplementary List of Perfumes
Suitable for Christmas Gifts.



This Magnificent Display Box Showing True
Colours of all HOUBIGANT FACE POWDER,
ROUGE and LIP STICKS Sent Free of Charge
with Orders.

PARFUMERIES DE PARIS, LTD.
ACTON, LONDON, W.3.



Watersprite FACE CLOTHS

MADE IN ENGLAND

THE NEW KNITTED FACE CLOTHS.

SIX EXQUISITE STYLES.

Size 12×11½ ins.

FRESH AS THE DEW.

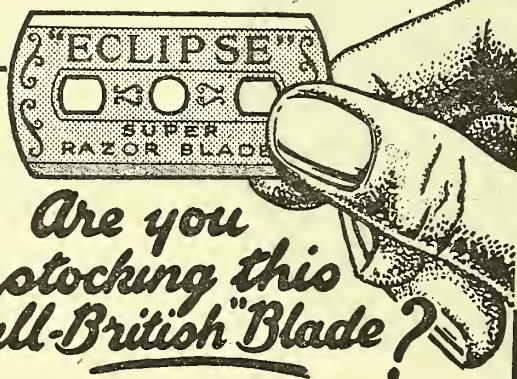
IN SHOW CARTONS OF 2 DOZEN.

- WHITE, with Coloured Borders.** doz.
- G220. Overlocked, Assorted Colours - 4/-
- G221. Overlocked, Assorted Colours, and cross-stitched - 4/6
- G222. Shell-stitched, Assorted Colours 5/3
- G223. Shell-stitched, Assorted Colours, and cross-stitched - 5/9
- COLOURED, with Coloured Borders.**
- G224. Overlocked, Assorted Colours, and cross-stitched - 5/6
- G225. Shell-stitched, Assorted Colours, and cross-stitched - 6/-
- Special Assortment:**
- G226. Cartons containing 4 each of above 6 No's. - per carton 10/6
- G227. Cartons containing 6 each of G220, G222, G223 and G224 per carton 10/3

Manufactured only by

SOLPORT BROTHERS, LTD., 184 to 190 Goswell Road, London, E.C.1.

AND OBTAINABLE THROUGH ALL WHOLESALE HOUSES.



*Are you
stocking this
"all-British" Blade?*

"Eclipse" Blades are made in our own works right from the production of the Crucible Steel to the Finished Blade, and are therefore **BRITISH FROM START TO FINISH.**

"ECLIPSE"
(Gillette Type)
**SAFETY RAZOR
BLADES**

5 for 1/8 10 for 3/4

1 Box at £1 2 3 per box of 100 Blades
5 Boxes at £1 1 8 " " "
10 Boxes at £1 0 10 " " "

Terms: Monthly less 2½ per cent.
Carriage paid on 3 box lots and above.

Obtainable from your usual wholesaler
or direct from the actual makers:

JAMES NEILL & CO. (Sheffield), LTD.,
Steel Manufacturers, Napier St., SHEFFIELD.



A
**KEEN
BLADE**
AT A
**KEEN
PRICE**

The Blade that SELLS as it SHAVES—
"LIKE GREASED LIGHTNING!"

Obtainable from all Leading Wholesalers.
Inquiries from Genuine Wholesalers only are invited.

Dept. C.D. "Wanie" Distributors:
c/o ROEBUCK'S ADVERTISING SERVICE
Salisbury Square House, Salisbury Sq., Fleet St., London, E.C.4

**"ODENTIC"
PLATE
BRUSH**

Regd. No. 417637.

From all
Wholesalers.

Counter Display Box with every 3 dozen.

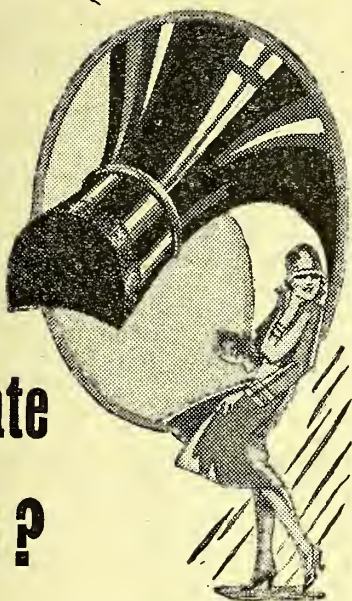
Manufacturers:

W. R. Speer & Son

(EST. 100 YEARS)

215 DALSTON LANE - - LONDON, E.8

Do You
Appreciate
FACTS?



If so, consider these.

1. Approximately 10,000 enquiries for Sorex Splash Savers received from the Public were referred to Chemists in all parts of the British Isles during the month of October.
2. Women write us every day expressing their appreciation of the line. The following is a typical example:—

"Gentlemen, London, W.1.
 "Just recently you sent me particulars of your Splash Savers. Having purchased a pair I must express my gratitude for your great kindness.
 "They are really marvellous. So comfortable to wear and not the slightest chance of splashing.
 "Now I go out in the wet weather without the uncomfortable feeling that everyone is looking at my splashed stockings.—Yours truly, M.R.T."
3. 1,400 Chemists' shops in all parts of the country are already selling Sorex Splash Savers.

As a Chemist the line will not interest you, but as a business man you will naturally want fuller details.

"SORPEX"
Splash Savers
 ONLY **The WONDER**
 Heel CAP

1/11 per pair

Complete with a dainty waterproof sachet.

SORPEX LIMITED, 1 ALBERT STREET, BIRMINGHAM.

H. MARCEL GUEST'S BUSINESS PULPIT

Things are moving so rapidly just at present that the man who says "It can't be done" is being interrupted BY SOMEONE DOING IT.

Actual Manufacturer of

H.M.G. and SELFIX Bottle Capping Solutions

These products are made for a specific purpose.

On the 2nd inst. a customer wrote:

"I have tried H.M.G. Capping Solution and found it just all I hoped."

On the 13th inst., after further trial, he says:

"Now I have used it more I like it better still." E. J. LATHAM, M.P.S.

Retail Chemists ordering through their usual wholesaler should insist on having H.M.G. THERE ARE SUBSTITUTES. Competitive Prices to both small and large users.

Trial quantity sent against P.O. or Stamps to the value of 1/3 THE FEATURE OF MY SERVICE IS PROMPT DELIVERY.

Centralised service for every type of BRITISH BOTTLE CAPS AND SEALS. The House with the Solution to your Capping Problem.

Northern Representative for:

Viscose Development Co., Ltd. (Viskaps).
 Honeywill Brothers, Ltd. (Solvents and Chemicals).

Northern Agent for:

London Capsule Co. (Adaptocaps Dry Caps).
 Press Caps Limited (Metal Press Caps).



**Oliver Street, Lower Openshaw
MANCHESTER.**

Telegrams: Hermetical, Manchester.
 Telephone: Openshaw 1110.



JOHN BELL, HILLS & LUCAS LTD.

OXFORD WORKS, TOWER BRIDGE ROAD, LONDON, S.E.1.

130 years' reputation for purity and excellence.
Pharmaceutical preparations, Drugs and Chemicals of high quality.
Packed Goods of elegant finish and Choice of many styles.
Specialists in compounding and packing customers' private formulas.
Price List on application. Tel-phone: Bermondsey 1141.

FREEMAN'S Chlorodyne

The ORIGINAL and BEST. Extensively used throughout the world since 1844.

Best for the Public—Best for YOU—all-ways.
DOES NOT REQUIRE CUSTOMER'S SIGNATURE.

Cable Address: "Chlorodyne, London."



'Vitality Pips

A wonderfully efficient Tonic. Especially prescribed.

P.A.T.A. Retail Prices 1/3 and 3/-

YOUR PROFIT 33 1/3% ON COST.

A Packet on the counter is a real money maker.

MAWSON'S OPTIMUS FILTERS

The most efficient household filter.
Made in different sizes in earthenware, glass and tourist patterns.
Stocked by leading wholesalers.

Write for terms to the manufacturers.

MAWSON FILTER COMPANY

(MAWSON & PROCTOR, LTD.)

NEWCASTLE-ON-TYNE.

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK

English
Filter

POSTLIP
Papers

SQUARES
CIRCLES
FOLDED
ROLLS

WHITE
GREY
PLAIN
ANTIQUE
EMBOSSED
CRINKLED

SAMPLES
FREE

Postlip Filterings are stocked by all the leading Wholesale Laboratory Dealers.

Evans, Adlard & Co Ltd

Postlip Mills, Winchcombe, Cheltenham.



"DEPENDABLE TOBACCO WHOLESALERS."

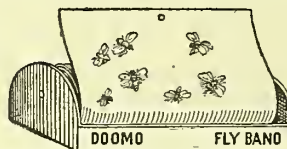
SINGLETON & COLE, LTD., CANNON ST., BIRMINGHAM

MIXED PARCELS A SPECIALITY

Established Fifty Years.

Price Lists mailed on request.

A PROFITABLE SIDE LINE FOR CHEMISTS.



THE DOOM OF THE FLY

"DOOMO" FLY BANO wide and long, also narrower one.

SMITH & CO.,
Doomo Works, NEWARK

BOB MARTIN'S TASTELESS CONDITION POWDER

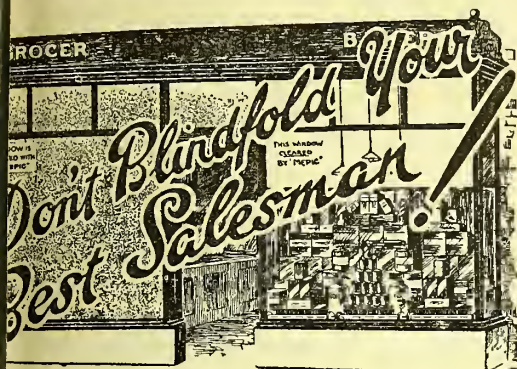
show a profit of 38

and are advertised in daily papers having a combined sale of more than SEVEN MILLIONS a day.

Bob Martin's '92 Ointment now replaces the well-known Mange & Eczema Lotions. Shilling tins in attractive Display Outlets sell readily and very steadily.

BOB MARTIN, LTD., SOUTHPORT, LANC.





Can you afford to be without your best Salesman?

You would not think of running your store with the blinds drawn. Yet how much trade is lost every Winter through frost and mist covered windows.

Keep your windows clear with the "MEPIC" Electric Shop Window Heater at negligible cost.

For long windows "MEPICS" can be coupled together by means of attachments fitted.

Plugged into any convenient lampholder in a moment. One unit of electricity will keep your windows clear, with one hour's use per day, for a fortnight.

Price 21/- each

From all first-class electrical stores, or if any difficulty write direct.

ist "C.D." and full particulars on request.

Ward & Goldstone
PENDLETON MANCHESTER

London Depot :
5 & 6
Eden Street,
Hampstead Rd.,
N.W.1.
Phone :
Museum 2492-3



Every shop in every class of business has a definite need for Wright's "Regulo"-controlled Gas Radiators in the cold-weather months. Customers appreciate the comfort they give.

Wright's Gas Radiators are especially suitable for shops because they are economical and require no attention. The "Regulo" automatically cuts down the gas when the radiator reaches a certain temperature, thus saving gas wastage and preventing the atmosphere becoming too oppressive.

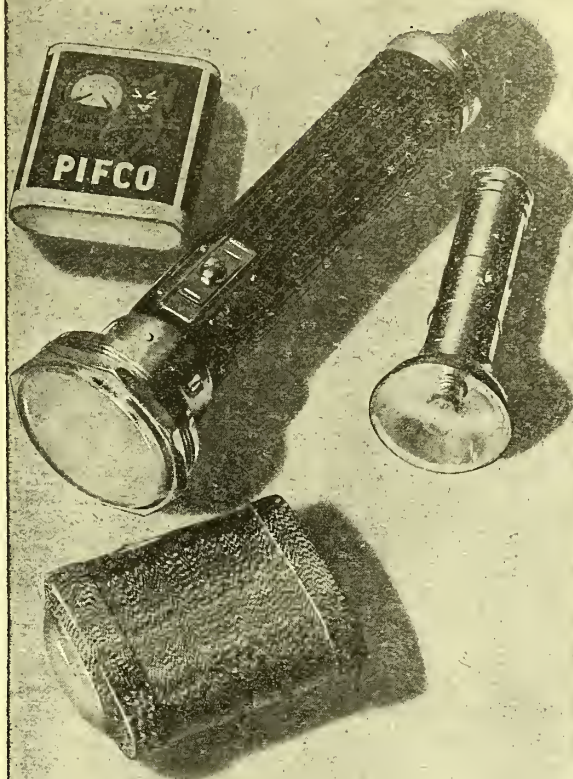
A new edition of the booklet "Loops of Heat" is now available.

WRIGHT'S GAS RADIATORS
"REGULO"-CONTROLLED

JOHN WRIGHT & CO.

(Dept. A)
ESSEX WORKS, ASTON, BIRMINGHAM
(Radiation Ltd., Proprietors)

FLASHLIGHTS SELL EASILY—PROFITABLY



Here is a profit line for you this winter, quick selling, and trouble free.

Everybody needs a flashlight. Get YOUR SHARE of this business.

Write to-day for new complete catalogue of the most extensive range of Torches, Pocket Cases, Bulbs, and Batteries in the trade.

High-Power Batteries, with a 12 months' guarantee - 3/6 dozen.

Torch Cases - from 4/- dozen.

Pocket Cases - from 3/- dozen.

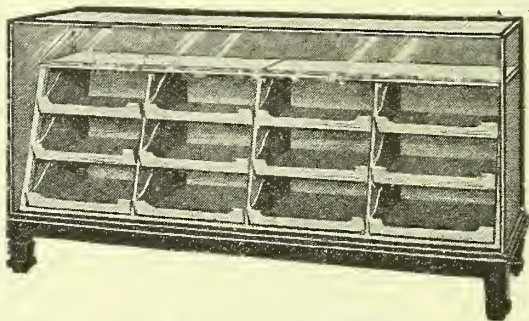
Hand Lamps - 9/- dozen.

Send a P.C. with your heading.

SELL FLASHLIGHTS

PIFCO LTD., 85, PIFCO HOUSE
HIGH STREET, MANCHESTER

RETURN for OUTLAY



THE QUICK SERVER

Ideal for business premises. Mahogany or Oak and Plate Glass. Three rows of light oak trays, opening from back as drawers. Above is a plate-glass shelf accessible by familiar sliding plate-glass doors.

Full illustrated list free on request.

WRITE
CALL
or
PHONE
Clerkenwell
2191

Philip Josephs & Sons Ltd.
90-92 St. John Street, Clerkenwell, E.C.1
PHARMACY FITTERS FOR OVER A CENTURY.

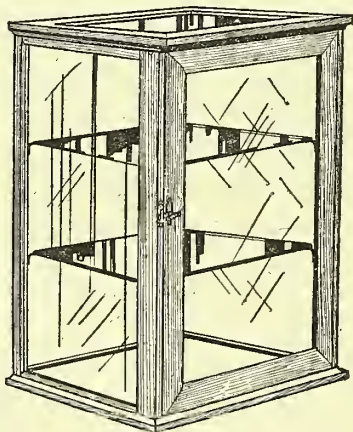
Late of
OLD ST.

On some goods you doubt that you are getting an adequate return for outlay, on some you are certain, on none can you rely so absolutely as on those things that enhance the attractiveness of your Pharmacy. A well-designed fitting is

An Investment

that brings a perpetual return. It attracts custom, gives status and lasts long after it has paid for the initial cost. We shall be pleased to discuss any shop-fitting problem.

The IDEAL CASE



FOR
YOUR
COUNTER

42/6
EACH.

No. CD/SF 2509. Solid Oak Framing. Dimensions: 2 ft. high x 1 ft. 3 in. wide x 1 ft. 3 in. deep. Clear glass all round and top, hinged door. Interior fitted two glass shelves. 42/6 each.

YOU NEED our List No. CD 1055. It contains 160 pages, each illustrated, of everything you require for your window display.

DUDLEY & COMPANY, Ltd.

HOLLOWAY, LONDON, N.7.

Head Office - - 451 HOLLOWAY ROAD.
And at 65 & 66 Fore Street, E.C.2

In the last
5 years
the sales of



TOWN TALK
LIQUID SILVER POLISH
& SILVER PLATE CLOTH
have increased
3 Fold

Get your share of the
trade by ordering from

JAMES WOOLLEY, SONS & CO., Ltd.,
Manchester
AYRTON, SAUNDERS & Co., Ltd., Liverpool
BROOKS & WARBURTON (American Drug
Supply Co.), Ltd.

Town Talk Polish Co.
Whitby St., Bradford Road, Manchester



STARTLING CLEARANCE LINES

Plain tinted medicals
to hold about 6 oz.
12 cases, each 6 $\frac{1}{4}$
gross - - - - 8/- gr. nett,
free Hull

Tablet Bottles No. 4,
including caps
1,000 gross - - - 3/6 gr. nett,
free London

Earthenware Pomades
with celluloid caps
to hold about $\frac{1}{2}$ oz.
30 gross - - - - 7/6 gr. nett,
free London

Stoppered Perfumes,
assorted designs,
about 1 oz. and
1 $\frac{1}{2}$ oz.
15 cases each 5 gr. - 9/6 gr. nett,
free London

Ear Syringes, about
 $\frac{1}{2}$ oz. - - - - 7/6 gr. nett,
free London

Do. about 1 oz. 10/6 gr. nett,
free London

Douche Linings,
about 2 pints - - 2d. ea. nett,
free London

Do. about 4 pints 4d. ea. nett,
free London

Champagne shaped
wicker Eau-de-
Cologne bottles
about 10 oz. - - 7/6 dz. nett,
free London

Do. about 20 oz. 9/6 dz. nett,
free London

Retorts in various sizes and Flat Bottom
Tubes without caps in various sizes.

ALL THE ABOVE OFFERED SUBJECT TO BEING UNSOLD.

'Phone :
Clerkenwell 8770
(3 lines).

JULES LANG & SON

Charlton Works, Charlton Place, ISLINGTON, N.1

'Grams :
" Assorted
Phone London."

DISTILLED WATER



Brown's Stills are perfectly
automatic. Can be run night
and day without attention.
Patented in U.K. and Con-
tinental Countries.

Extraordinarily efficient and
economical. Made for gas,
steam, oil or coke fire heating.

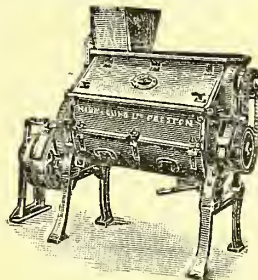
Full particulars and prices free on application

BROWN & SON,

Alembic Works,
Wedmore Street, Holloway, N.19

"ATLAS" PATENT SIFTERS & MIXERS

Combined or Separate Machine, for hand or power.



Fitted with all our
latest improvements.

BALL and PEBBLE
GRINDING MILLS.

Various Sizes.

HIND & LUND,
LIMITED,
ATLAS WORKS,
PRESTON.

Established 1791.

Small Rotary Pill Cutting Machine & Piping Press.

ASK YOUR AGENTS FOR PINDAR & CO.'S MACHINES—ORIGINAL MANUFACTURERS.

This is a Machine specially constructed for the use of Chemists or Manufacturers of small quantities of Pill. Capacity about 5 lbs. per hour. Can be used on Counter or where little space can be spared. The Piping Press and Machine occupies a space of 2 ft. by 1 ft.

These Machines make one size Pill. By means of extra Plates and Rollers any size of Pills can be made.

Extra Plates and Rollers
to fit Machines, 24 5 6.

Price, the two machines, £12.

SMALL LEVER HAND TABLET MACHINE, 60 TO 80 PER MINUTE, £7 15

Power Tablet Compressing Machines, Coaters, Complete Pill Plants, End Runner
Mills for Ointments, Linseed Grinding Mills, Tincture Presses, Emulsifying Machines,
Percolators, &c., Mixing and Kneading Machines, Drying Ovens, Hand Pill Machines.

COLD COMPRESSION SUPPOSITORY MACHINES.

SUPPOSITORY AND PESSARY MOULDS, LIP SALVE MOULDS, Etc.

J. W. PINDAR & CO., LONDON, S.E.4.

Works: ENDWELL ROAD, BROCKLEY, LONDON, S.E.4.

Telegrams: "Pindar, Brockley, S.E."

Telephone: 1065 New Cross.

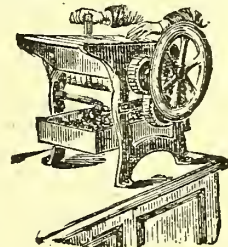
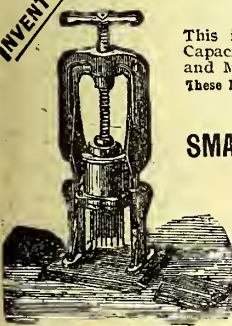


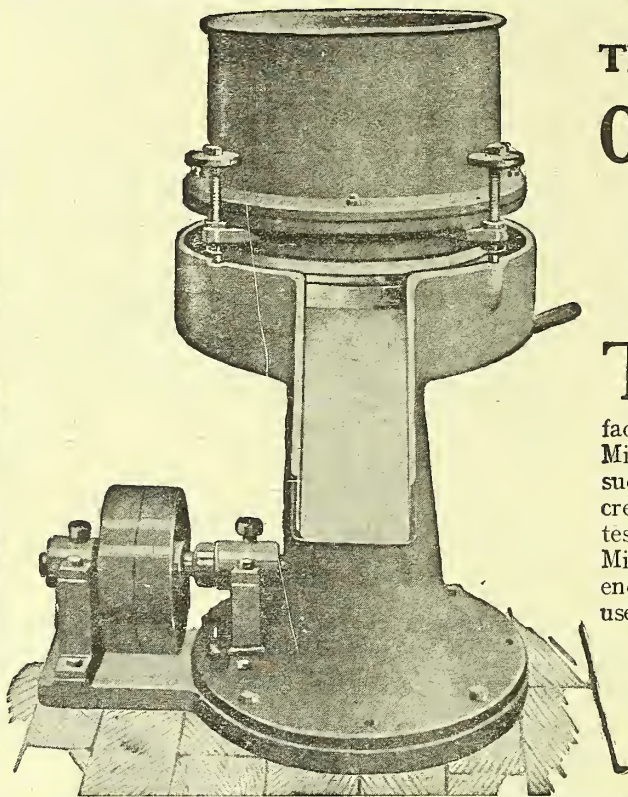
Fig. B. No. 2.

ROTARY CUTTING MACHINE

INVENTORS



PIPING PRESS.



The Latest Triumph in OINTMENT MILLS

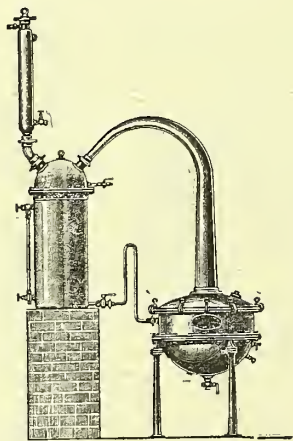
THIS ILLUSTRATION SHOWS THE NEW
SUPER SPEEDY MILL

THERE are now approximately 300 of S. W. WILKINSON's original Speedy Mills in use by British and other Manufacturing Chemists. A number of the new Mills are now in use and are giving much success and pleasure to the users and much credit to the designer and maker. Splendid testimonials have been received. The new Mill is the result of nearly 20 years' experience with the original Mill and the various uses to which it has been applied.

S. W. WILKINSON & Co.

Chemical Engineers

Western Road - - LEICESTER



STILLS, VACUUM STILLS, VACUUM PANS.

EVAPORATING PANS

AUTOClaves AND DIGESTORS

**SPECIAL APPARATUS AND PLANT
FOR MANUFACTURING CHEMISTS.**

Sole Makers of Bennett's Patent "Ideal" Annular
Film Condensers. Shears' Patent Mulser.

BENNETT, SONS & SHEARS, LTD.

Engineers & Coppersmiths

43 & 44 Shoe Lane, LONDON, E.C.4

"EXPRESS" FILLING MACHINE

FOR CHEMISTS, etc.

For Oils, Essences, Inks, Sauces, Lacquers, etc.

The average speed
is 1,000 bottles per
hour. Is used by the
largest Chemists
and Bottlers.

*Many references to users
throughout the world.*

Full Price List on application

From **£12**

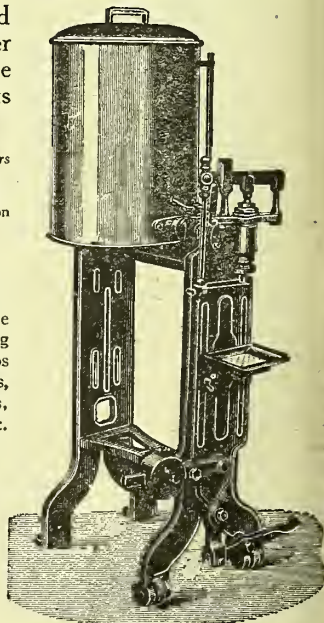
We also make Tube
Filling and Closing
Machines, Asbestos
Filters, Patent Funnels,
Capsuling Machines,
Corking Machines, etc.

J. P. JACKSON

& CO., LTD.

(DEPT. C.D.).

Pownall Square
LIVERPOOL.





Maintain

Daylight Efficiency

Under ordinary artificial lighting, eyestrain and fatigue result—efficiency falls from daylight standards. Dakol maintains the quality of daylight. All glare and harmful rays from ordinary electric light are cut out by the Dakol Screen.

Jaundice and skin diseases can be recognised by Dakol as surely as by daylight. Dispensers find Dakol ideal.

Dakol is the only artificial light of Daylight quality. Demonstration Free. Consult us without obligation. One of our experts will call and advise you on your lighting question



DAKOL ELECTRIC DAYLIGHT

DAKOL ELECTRIC LTD.

Chief Sales Office,
Dept. C.D. 2,
39, Victoria Street,
London, S.W.1.

Regd. Office and Works,
Dept. C.D. 2,
Byron Street,
Newcastle-on-Tyne.

A Bright Christmas Window

will just give that finishing touch to convince the potential buyer that yours are the goods for Christmas presents. Illustrated Lists in colours, No. C.D. 1090, showing tickets, posters, window slips, artificial flowers, vine leaves and all decorations applicable to the festive season, free on mention of this journal.

DUDLEY & CO. Limited

558/576 Holloway Road, London, N.7

City Showrooms - 65, FORE STREET, E.C.

ZEISS

REFLECTOR LAMPS

TURN EXPENSE INTO PROFIT.

A small expenditure on efficient fittings will purchase the double benefit of reduced electric lighting accounts and increased custom.

LIGHT YOUR SHOP ATTRACTIVELY

Full particulars in List B 79, on request, from the British Representatives:

CARL ZEISS (LONDON) LTD.

Winsley House, Wells Street, Oxford Street, London, W.1.



Why
you
Should
Use

VITREO- COLLOID

BOTTLE CAPPING SOLUTION

Below are Seven Sound Reasons why you should be using this New Material for Bottle Capping. Already the rapidly increasing popularity of V-C is an early indication that it will supersede the out-of-date and inefficient materials hitherto employed.

V-C is British throughout. It is sold in 1-lb. tins or quoted per gallon.

1. It is the cheapest and most effective method.
2. It is non-inflammable in its dry state, staple, inert and hygienic.
3. It dries within 10 minutes.
4. It gives a fine finish and in various colours.
5. It is greaseproof and hermetically seals indefinitely.
6. Its surface repels dirt and preserves a bright clean appearance.
7. Metallic colours can also be supplied.

MONEY SAVED & BETTER RESULTS BY USING V-C BOTTLE CAPPING.

Obtainable from all WHOLESALEERS or from our Sole Selling Agents:

S. MURRAY & CO., LTD.

Record House, Farringdon Road, LONDON, E.C.1

Phone: Holborn 0717 & 0718.

'Grams: "Depressors, Smith, London."'

Upon receipt of p.c. our demonstrator will call upon you

JOHN M. NEWTON
VITREO-COLLOID, LTD.

Kingsbury House,
King Street, London, S.W.1



V.P.

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment.
Edos, or Tasteless Purging Powder.

HARVEY'S**Great**

Protected Prices
(P. A. T. A.)

Remedies for the Horse**HARVEY'S**

Koppas Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Hair Restorer (Human).

Of all the leading Druggists' Sundries Houses
HARVEY & COMPANY, Ltd., Dublin

Continuous and Steadily Advertised Goods
FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (protected).	Net Wholesale Prices
Virus for Rats and Mice, single tube, 2/-	.. 15/- per doz.
3 tubes, 5/-	
Virus for Mice only - single tube, 1/6	.. 9/- " "
3 tubes, 3/-	

Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price.	Wholesale Price
Quart Bottles 6/- each	4/6 each
Pint " 4/6 " "	3/9 " "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33% cash with order.

	Retail	Monthly a/c	Cash with order
1/2 gall. tins	.. 10/-	.. 7/6	.. 6/8
1 " "	.. 18/-	.. 13/6	.. 12/-
5 " "	.. 80/-	.. 60/-	.. 53/4

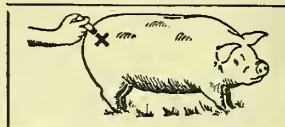
DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.	
Retail Prices (protected).	Wholesale prices per doz.
In tins 3d.	In boxes of 2 doz. 2/1
" 6d.	" " 1 " 3/8
" 1/-	" " 1 " 7/3
" 2/6	" " 1 " 18/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from
HALLER LABORATORIES, LTD.
325 Borough High Street, LONDON, S.E.1
Telegrams: "Virudana, Sedist, London." Telephone: Hop 2717.



BATTLE'S HANDY Marking Paint Sticks

FOR BRANDING ALL STOCK

Invaluable for Farmers, Dealers, etc. Supplied in handy tubes, clean and convenient for the pocket, and in bright colours:—Red, Blue, Green, Yellow, Pink, Magenta, Black, Violet.

GOOD PROFITS

Write for Sample and Trade Prices

BATTLE, HAYWARD & BOWER
Victoria Chemical Works
LINCOLN

NOT AFFECTED BY D.D.A. REGULATIONS AND
RECOMMENDED BY MINISTRY OF AGRICULTURE.

FARMER'S "BAITED" RAT PASTE

is worthy of mention to the vermin infested. SELLS WELL and does its work.
Please try a stick through any distributor.



NEVER FAILS.
JARS 4d., 7d., 1/3.
LARGE TINS 4/-.
OF ALL CHEMISTS.

Attract the trade that is waiting for you!

Averages show that one house in every three contains a dog or cat. Their owners spend regularly to keep their pets in healthy condition. Attract the extensive trade that is residing in your district by stocking and displaying

SHERLEY'S

**DOG AND CAT MEDICINES,
LACTOL, LACTOL BISCUITS, Etc.**

The standard remedies for over 20 years!

There is no risk of loss. Unsaleable, or shop-soiled goods are exchanged or credit allowed at any time. Stock Sherley's now, the largest and most vigorously advertised brand in the Canine and National Press.

Write for price list and terms and ask for our showcards, literature, cut-outs etc., FREE!

A. F. SHERLEY & COMPANY, LIMITED
18 Marshalsea Road, London, S.E.1

A SPECIAL CHEAP ENLARGEMENT

SOMETHING TO BRING TRADE DURING THE SLACK SEASON

WINDOW
DISPLAY
MATTER.

$\frac{1}{2}$ -Plate Mounted Enlargement
to Sell at 1/3.

HANDBILLS
SUPPLIED.

THE KEEN MAN IN THE SLACK SEASON GETS THE
BUSINESS WHEN THE BUSY SEASON COMES

WRITE FOR DETAILS

A. J. SHAWYER & CO. *Trade Photographers,*
12 WOOD STREET, SWINDON.

The D. & P. SERVICE for EVERY PHOTOGRAPHIC DEALER

THE Service rendered
by Photopress is the
same all the year round—
unfailing and enduring.
There is no better work,
no finer value and no
quicker delivery.

The Photopress staff are
all craftsmen, and the
equipment of the works
is both perfect and
complete.

PHOTOPRESS Johnson's Court,
Fleet St., LONDON, E.C.4.

SEND ALL YOUR WORK TO

Bailey's

Expert
**PHOTO
SERVICE**

Reliable
for
Speed
and
Quality

FILMS RECEIVED FIRST POST
DEVELOPED, PRINTED AND
DESPATCHED SAME DAY.

64 High Street
Highgate Village
London, N.6

TELEPHONE: 0663 MOUNTVIEW.

MANY SUCCESSES IN THE EXAMINATIONS

Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the course
may receive personal tuition in the practical work
AT ANY TIME DURING THE COURSE.

Expert Tuition for the *SIGHT-TESTING DIPLOMAS* of the *Worshipful Company of Spectacle Makers (F.S.M.C.)*; the *British Optical Association (F.B.O.A.)*; the *National Association of Opticians (F.N.A.O.)*; or the *College of Optics (F.C.O.)*.

Write for full particulars—

G. A. SCURR, M.P.S., F.S.M.C., F.B.O.A., F.N.A.O., B.Sc., F.I.O., F.C.O.
50 HIGH STREET, BARNET, LONDON, N.

S.A. Representative: E. E. G. WOOLLEY, F.S.M.C., M.P.S., P.O. Box 1963,
Darban.

N.Z. Representative: R. C. AITCHISON, Box 158 PALMERSTON, North.

WESTMINSTER COLLEGE OF PHARMACY

190 Clapham Road, London, S.W.9

Founder: G. S. V. WILLS, Ph.C. Principal: P. H. WOODNOTH, Ph.C., F.C.S.

EVENING CLASSES ARE HELD
EACH WEDNESDAY AND THURSDAY
from 6 p.m. to 8.30 p.m. for the
PRELIMINARY SCIENTIFIC EXAMINATION

Full details and prospectus may be obtained from The Secretary

Liverpool School of Pharmacy

2 Blackburne Place, Liverpool.

Principal—

H. HUMPHREYS JONES, F.I.C., F.C.S., Ph.C.

Autumn Session commenced Oct. 3.

A SIX MONTHS' COURSE FOR THE
JULY EXAMINATION WILL COMMENCE
EARLY IN JANUARY.

Full Particulars from the Principal

LONDON COLLEGE OF PHARMACY.

THE ANNUAL

DINNER & DANCE

Will be held on

WEDNESDAY, NOV. 28th, 1928,
at the

MOORGATE STREET STATION RESTAURANT.

Dinner 6.30 p.m. for 7 p.m. Dancing 8.30 p.m.

Tickets may be obtained from the Secretary, price 8s. 6d. each

An endeavour is being made to make this a real OLD STUDENTS' REUNION, and you are urged to do your utmost to be present.

Evening Dress optional.

361 Clapham Road, S.W.9.

PRECIPITATED CHALK

LIGHTEST, MEDIUM, DENSE
And All Other Grades To Suit Every Purpose
CHEMICALS FOR ALL INDUSTRIES.

Phone: Central 4613. Tel. Add.: "Levermore, Phone, London."
A. LEVERMORE & CO., LTD. ABC Codes
8-10 GT. ST. HELENS, LONDON, E.C.3 5th & 6th Editions

"Dutec"

made in
England
by

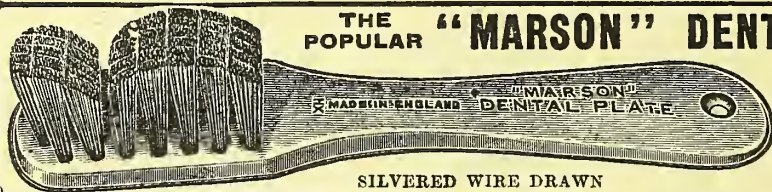
J. DUPONT & Co., 18 FORE ST., LONDON, E.C.2.



TOOTH BRUSHES

Various
Patterns.
Samples
on
request.

THE **"MARSON"** DENTAL PLATE BRUSH



SILVERED WIRE DRAWN

IN STIFF UNBLEACHED BRISTLE
Best English Make. Packed in Cartons.
SAMPLES AND PRICES ON APPLICATION
C. F. MARSHALL & SON
Devonshire Works, Devonshire Rd.,
HACKNEY - LONDON, E.9

FRED^K. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.3.

TEL.: ROYAL 5094.

GUMS, ARABIC and TRAGACANTH as Imported or
Finely Powdered. :: SHELLACS ALL GRADES.

THE PRESCRIBER

Twenty-second Year of Issue.

November 1928

RECENT WORK ON MALARIA.

Post free 2s. 2d.

Annual Subscription 20s. post free anywhere.

Through any Medical Bookseller, or direct from:-

"THE PRESCRIBER" Offices, 6 South Charlotte St., EDINBURGH.

MANUFACTURERS & EXPORTERS OF
TOILET BRUSHES
Also suppliers of HANDLES AND BRISTLES

SAKABE & CO. No. 4 Naniwacho, Kitaku,
OSAKA, JAPAN.
Established 1905. Proprietor: JIRO SAKABE.

GREY HAIRS Trial Phila
appear just here. 8^D
TOUCH THEM UP WITH Post Free
TATCHO-TONE
and they will instantly recover their
natural shade. Medical Guaranty with
each bottle. Chemists' Prices 2/6 and 4/6
TATCHO-TONE CO., 5 Great Queen Street, London, W.C.2

TREBLES SHOP FITTERS
SHOP FRONT
BUILDERS

PHARMACY FITTERS for over a Century.

549a Lea Bridge Road, Leyton, London, E.10

CHEMISTS' FITTINGS
OF EVERY DESCRIPTION.
NEW AND SECONDHAND.

E. BERG, LTD., 336 Old Street, E.C.1



D. MATTHEWS & SON,
Shop Fitters and Showcases
Manufacturers,
14/16 Manchester St.,
LIVERPOOL.

THE
KWIK-SALE SHOWCASE

Suitable for all Businesses.

Plate glass sloping front. Frameless Mirror
sliding doors at back. Polished edge plate
glass shelf inside. Size 3 feet long, 14 in.
back to front at bottom. 9 in. back to front
at top. 12 in. high. £5-10-0

PERSONAL TUITION IN OPTICS

BY TEACHER OF 20 YEARS' EXPERIENCE

SUCCESSES at all EXAMINATIONS 80%—MAY—1928

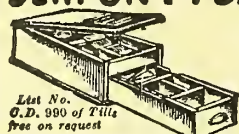
Full Facilities for practical Work,

L. L. LIEBERMANN, F.S.M.C., F.B.O.A., F.I.O.O.

Late Lecturer in Applied Optics, College of Technology, Manchester University

(Registered Teacher), 33 CHEETHAM HILL ROAD, MANCHESTER

SENT ON 14 DAYS APPROVAL



upon receipt of cash or two wholesale trade
references. "LITTLE BRILLIANT" TILL
Improved 16 x 24 x 6 ins.
mahogany, highly polished, lock
to lid and drawer, warning bell,
secret catch and check action. **32/-**

Coils 2½ ins. wide 4/- doz.

DUDLEY & COMPANY, LTD.

558-576, Holloway Road, London, N.7.

THE CHEMIST'S MONOPOLY—

P.P.T. PY-SHAN POINTS TEA
SECURES YOU REGULAR CUSTOMERS
5d. per lb. PROFIT or 7d. per lb.
when cash accompanies order.

THOS. CHRISTY & CO., 4/12 Old Swan Lane, E.C.4

Potter & Clarke, Ltd.

60/64 ARTILLERY LANE, LONDON, E.1

Phone : Bishopsgate 4761.

Grams : "Horsehound, Phone."

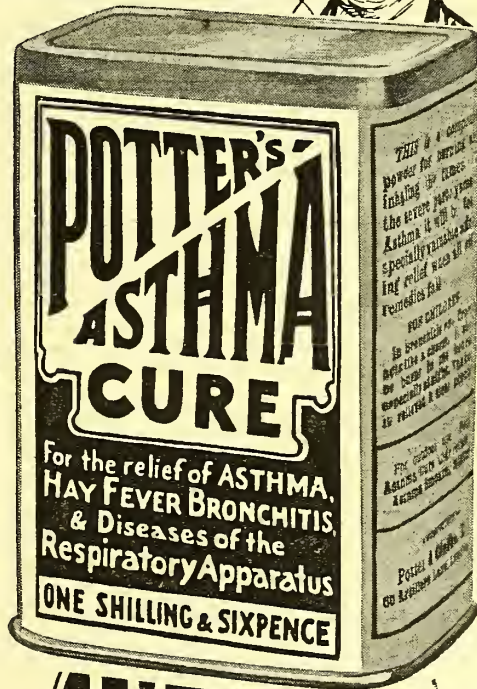
and at 24 LUNA STREET, QT. ANCOATS, MANCHESTER

POTTER'S ASTHMA CURE

Has found its
public, and is
being widely
advertised at
home and
abroad.

POTTER'S ASTHMA CURE stands
alone for efficacy and public esteem.
Purchase your supplies direct from
us or through your usual wholesaler.

*My Asthma
has gone
-thanks to*



"NERVE RESTORE" NERVE FOOD



A real nerve food composed of Pure Milk Casein and Sodium Glycerophosphate. As a chemist the therapeutic value of these ingredients is well known to you and Nerve Restore can be recommended to your customers with full confidence that you are offering a preparation of real value.

Two sizes only, 8 oz. tin 4/3; 16 oz. 8/-. Costs you 34/- and 64/- doz. and 5% extra discount with a £2 order in return for display.

AN ADVERTISING CAMPAIGN

has been prepared, and advertisements will appear in the following papers:—"Evening News," "Star," and "Evening Standard." The demand of the public is sure to follow. We want to assist you in every way to meet this demand.

We are in an exceptional position to offer packed lines: both in quality of ingredients and in pack the highest Pharmaceutical Standards have been well maintained.

The following prices are subject to 2½% discount for payment by the 10th of the month following date of invoice. A post card will bring you full particulars, or they may be obtained at our office, where samples can also be seen.

A FEW EXAMPLES OF OUR PRICES.

	Per doz.		Per doz.
Aspirin Tablets	25's 2/3 26/-*	Chemical Food	6 oz. 5/6 64/-*
	100's 5/9 68/-*		12 oz. 10/- 117/-*
Cod Liver Oil	8 oz. 7/9 90/-*	Glycerine	4 oz. 5/6 64/-*
Finest Norwegian	16 oz. 14/- 165/-*		8 oz. 9/6 111/-*
Non-freezing.	32 oz. 27/6 324/-*		16 oz. 17/- 201/-*
Compound Glyc. of	4 oz. 4/- 46/-*	Medicinal Paraffin	8 oz. 6/6 75/-*
Thymol	8 oz. 6/- 70/-*		16 oz. 11/6 135/-*
	16 oz. 10/6 124/-*	S.G. 885, Viscosity	16 oz. 11/6 135/-*
	40 oz. 24/- 244/-*	290 @ 100°	40 oz. 26/- 309/-*

* Per 1 gross lots assorted sizes of any one line.

AMALGAMATED LABORATORIES, Ltd.
STAPLE INN BUILDINGS (SOUTH),
HIGH HOLBORN, W.C.1.

Phone: Holborn 6688.

PRINTING

by

Alf. Harrison & Sons, Ltd.

LABELS, ENVELOPES, CARTONS AND EVERY
KIND OF PRINTING IN USE BY PHARMACISTS

:: :: SAMPLES AND QUOTATIONS FREE :: ::

Alf. Harrison & Sons, Ltd.

Burley Rd., Leeds & Sentinel House, Southampton Row, London, W.C.1

PHONE: HEADINGLEY 51974.

GRAMS: "IDEAS, LEEDS."

RADIUM FOR ALL

A NEW AND WONDERFUL WATER

The remarkable energising and healing powers of the waters from the

RADIUM SPRINGS

of Chao Da Pena have been known for hundreds of years. The Springs were called "Miracle Waters," and kings themselves marked them down for their own exclusive use.

Recently, these healing and vitalising powers were found to be due, not to supernatural origin, but to Radium.

THE WATER IS RICH IN RADIUM

Its effect on the healthy body is extraordinary—new energy, vitality and all the glow and well-being of youth.

Its effect on the ailing body is well-nigh miraculous. Organs and glands that seem inaccessible and obdurate to any other medicament regain strength and renew their functions.

A number of doctors have tried this Radium Water and attested its merits. Rheumatism, sluggishness of gland action (which may reflect itself in many sinister ways), faults of skin and hair, obesity, deterioration of the nerves or arteries—these and many other ailments have yielded ground to it in a way that has surprised even the doctors themselves.

And it is a beautiful water to drink; so clear, so cool, so inviting to eye and palate alike.

ALL ENQUIRIES TO

RADIUM SPRINGS Ltd.
ADELAIDE HOUSE, LONDON, E.C.4

SLIPPERINE

DANCE POLISH

The Floor the Dancers Prefer

STOCK THE P.A.T.A. LINE THAT IS ASKED FOR.
DECORATED TINS. 1/6 size at 12/- dozen

2/6 " " 20/- " } P.A.T.A.
10/6 7 lb. " 96/- "

Under £3, nett one month; £3, less 2½%
one month; £6, less 5% one month.

Carriage Paid £3. Cases free.

STRIKING SHOW MATERIAL.

Nett Cash.

SINGLE STANDARD CASES. CARRIAGE PAID.

Case	1/6	2/6	Cash	Case	1/6	2/6	10/6	Cash
A	24	—	24/-	D	—	—	4	32/-
B	12	6	22/-	H	12	—	1	20/-
C	12	12	32/-	J	—	9	2	31/-
G	—	18	30/-	K	6	6	2	32/-

Distributors for England and Irish Free State:

A. de ST. DALMAS & CO., LTD.,
Leicester, London and Dublin

Makers:

JOHNSTON & ADAMS, Dundee, Scotland
Export: WM. C. RUDKIN & CO., 44 King William Street, E.C.

XMAS BRINGS

A DEMAND FOR COLOUR!

Get ready for the
rush on Drummers.
Your Customers
will soon be starting
to freshen up their
homes in prepara-
tion for Xmas jollity.
Everything that can
be dyed will call for
Drummer—you sup-
ply the demand and
make easy profit.

Order now!

Drummer Dyes

28 Safe and Simple Colours
to Retail at 4d.

EDGE'S,



Trade terms
and full
range of
attractive
advertising
matter sent
free
on receipt
of postcard.

BOLTON

Robert Lee

14 CALVERLEY GROVE,
UPPER HOLLOWAY,
LONDON, N.19

Specialist in

the manufacture of

Orange Sticks & Emery Boards

BOXED, CARDED OR IN BULK
AT COMPETITIVE PRICES

WHOLESALE ONLY.

BUY BRITISH.

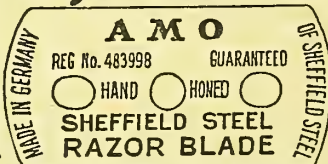
Phone: Mountview 7811



Nothing "As good as really" FREE

Else!

than the
Blade you
have been
looking
for



3 doz. Blades
with each
Cross
ordered.

"Good Blades can be" 8/- Per Gross
FREE TESTING SAMPLE UPON REQUEST. POST PAID.

ORDER NOW—IT PAYS BEST—GIVE "AMO" A TEST

L. FRANKENBERG, 125 Houndsditch LONDON, E.1

ESTD. 15 YEARS

TEL. AVENUE 8846

Get ready for the run on RINEX!!

A Big Advertising Campaign started on Friday, 23rd November, in the following papers:—

Times.
Daily Telegraph.
Morning Post.
Daily Mail.
Daily Chronicle.
Daily Express.
Daily News.
Daily Mirror.
Daily Sketch.
Evening-Standard.
Evening News.
Star.
Barrow North-Western Daily Mail.
Birmingham Mail.
Blackburn Northern Daily Telegraph.
Bolton Evening News.
Bournemouth Daily Echo.
Bradford Daily Telegraph.
Bristol Evening News.
Coventry Midland Daily Telegraph.
Darlington Northern Echo.
Derby Daily Telegraph.
Exeter Express & Echo.
Kent Evening Echo.
Gloucester Citizen.
Grimsby Daily Telegraph.
Halifax Courier & Guardian.
West Hartlepool Northern Daily Mail.
Huddersfield Examiner.
Hull Daily Mail.
Kettering Northants Evening Telegraph.
Leeds Yorkshire Evening News.
Leeds Yorkshire Evening Post.
Leicester Daily Mercury.
Liverpool Evening Express.
Liverpool Echo.
Manchester Daily Dispatch.
Manchester Evening Chronicle.
North-Eastern Daily Gazette.
Newcastle Evening Chronicle.
Northants Daily Chronicle.
Norwich Eastern Evening News.
Nottingham Evening Post.
Plymouth Western Morning News.
Portsmouth Evening News.
Lancashire Daily Post.
Sheffield Yorkshire Telegraph & Star.
Southampton Southern Daily Echo.
Staffordshire Sentinel.
Wolverhampton Express & Star.
Yorkshire Evening Press.
Cardiff Western Mail.
Swansea Cambria Daily Leader.
Aberdeen Evening Express.
Dundee Courier & Advertiser.
Edinburgh Evening News.
Glasgow Daily Record.
Glasgow Evening News.
Glasgow Bulletin.
Glasgow Sunday Mail.

Accept this Bonus Offer!

WE will send you a postal order for 7/6 for a photograph of your RINEX window display and enter the photograph in our great competition. You stand a chance of winning:—

£25 - - First Prize.

£10 - - Second Prize. £5 - - Third Prize.

—Or one of the 20 consolation prizes of £1. The judges will be Mr. A. E. Hale, General Manager of Dorland Advertising, Ltd., and a prominent representative of a Chemists' paper.

In addition you get one 5/- bottle and two dozen 3-dose samples of RINEX free. And sale of your entire stock of RINEX guaranteed by June 29th, 1929, or cash returned!

Here's a generous offer:—

Send in the order form and take advantage of this bonus offer right away.

WE ARE SPENDING THOUSANDS IN ADVERTISING RINEX (Dr. Platt's prescription for the cure of COLDS and Hay Fever in 24 hours, and IMMEDIATE relief of ASTHMA and CATARRH).

EVERY PAPER OF NATIONAL IMPORTANCE IS CARRYING OUR STRIKING MESSAGE—RELIEF GUARANTEED WITHIN 24 HOURS OR MONEY BACK!

Order now—either 1 doz. 5/- at 45/- doz. and 1 doz. 2/6 at 22/6 doz. or 3 doz. 2/6 at 22/6 doz.

Remember, you make your normal profit of 12/6 as well as get a window show which has been proved to sell the goods quickly. MOREOVER YOU CAN RETURN FOR CASH ANY UNSOLD. Post the Order Form NOW.

BONUS ORDER FORM.

To Tibo Products Co., Ltd. (RINEX Dept.),
Audrey House, Ely Place, London, E.C.1.

Retail Order for RINEX on Special Terms.

You may send me 1 doz. 5/- RINEX at 45/- doz. & 1 doz. 2/6 at 22/6 doz. or 3 doz. 2/6 RINEX at 22/6 doz. (Cross out one not required).

Provided you send me one 5/- size free also a free proved Window Show and 2 dozen samples free.

It is understood that you will pay 7/6 for a photograph of the 3 weeks' window show I will give, and to enter the photograph in the £60 Competition. I agree to pay for these goods within 30 days net (2½% for cash in 7 days). You agree to credit any remaining unsold by June 30, 1929.

Name.....
Address.....

Your Opportunity

£12/10/0

OR CAN BE SUPPLIED ON
A FIRST PAYMENT OF

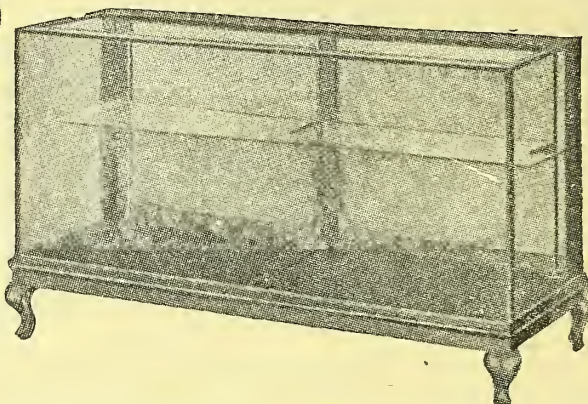
£1 : 1 : 11

AND 11 FURTHER
MONTHLY PAYMENTS OF

£1 : 1 : 11

EX WORKS

Insured Free in transit



£12/10/0

OR CAN BE SUPPLIED ON
A FIRST PAYMENT OF

£1 : 1 : 11

AND 11 FURTHER
MONTHLY PAYMENTS OF

£1 : 1 : 11

EX WORKS

Insured Free in transit

Ref. No. D.S.I. SOLID OAK OR MAHOGANY FRAME. FIRST QUALITY DRAWN PLATE GLASS FRONT, TOP AND SIDES. 2 CLEAR GLASS SLIDING DOORS AT BACK. FITTED INSIDE WITH STANDARD EARS AND BRACKETS WITH ONE ROW OF 2 PLATE GLASS SHELVES. POLISHED EDGES. CARVED LEGS. SIZE OF SHOWCASE : 6 FEET LONG ; 3 FEET HIGH ; 2 FEET WIDE.

SEND AT ONCE FOR FULL LIST OF SHOWCASES AND FITTINGS
No. 933, POST FREE.

J. C. KING, LTD., 42-60 GOSWELL ROAD, LONDON, E.C.1

*Phones : CLERKENWELL 2317 (5 Lines).

*Grams : "MAINBOOM, LONDON."

POISONS.

You *must* keep a Register.

It is much more satisfactory to have one which is quite **PRIVATE**. The purchaser need not see any of your business. Our page to an entry book prevents that. A correspondence card always in the book, with an elastic band, "keeps the place" and covers the left-hand leaf when filled in.

Price, 250 leaves, 4 $\frac{1}{8}$ x 4 (500 entries), 4/6.



The Chemist's Compact Library

MONEY-MAKING AND
MONEY-SAVING BOOKS

**EVERY BOOK BY
AN EXPERT.**



May be obtained at the published prices from any
Wholesale Drug or Sundries House, or from

THE CHEMIST & DRUGGIST
42 CANNON STREET, LONDON, E.C.4

Branch Offices:

Manchester and Sheffield, England;
Melbourne and Sydney, Australia.



*Reduced
facsimile*

of packing

*Write for particulars and prices, or
ask our representative on his next
visit*

TRADE
MARK

'WELLCOME' BRAND SODIUM SALICYLATE

(Physiologically Pure)

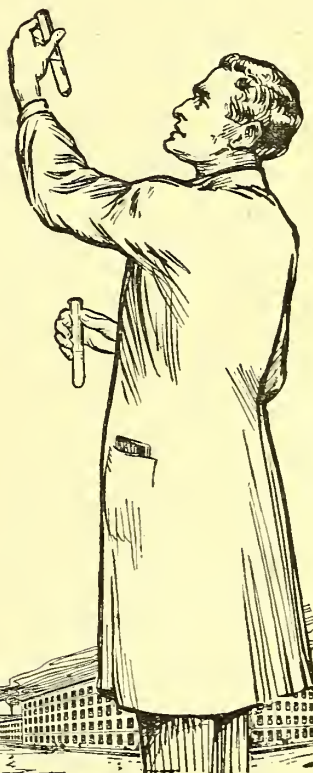
When next you use 'WELLCOME' SODIUM SALICYLATE note how smoothly it slides from the scale pan to the paper, and from the paper to the bottle. Examine a 25 per cent. solution and note how clean and "water white" it is.

Your experience with ordinary Sodium Salicylate will lead you to appreciate these physical superiorities, at the same time you are certain of the quality because of the 'WELLCOME' BRAND.

*Packed in 1 lb., 4 lb. and 7 lb. cartons
Powder or Flake*



BURROUGHS WELLCOME & CO.
LONDON



Special terms to Chemists for

"MILK OF MAGNESIA" (Regd.)

AND

"DANDERINE" (Regd.)

On orders of one half gross Small size or equivalent, 5% discount and an additional 2½% for Cash.

"DANDERINE" and "MILK OF MAGNESIA" Showcards, etc., sent carriage paid on request to—

Proprietary Agencies Ltd., 179-181 Acton Vale, London, W.3



When Nature Fails.

Benger's Food was first prepared, over 40 years ago, for the use of medical men, who quickly appreciated that, in Benger's Food, science had been able to step in and give powerful aid when nature failed. Since that time it has always enjoyed the approval and recommendation of the professions of medicine and pharmacy.

Show Material from—
BENGER'S FOOD, LTD., ——— MANCHESTER.

GET IT———TRY IT———PROVE IT

CUCUMEL **THE WONDERFUL SKIN EMOLLIENT**

Advertising—"Pulling" Show Material and "Get up" places it in the front rank of Popular Winter Sellers.

THE WINDOW DISPLAY BONUS OF 6 BOTTLES
WITH A 3 DOZEN CARRIAGE PAID ORDER

NETS YOU **43%** PROFIT ON SALES

CUCUMEL COSTS **12/-** per doz. SELLS AT **1/6** per Bottle.

Suitable Show Material for Autumn and Winter is now available.

THOS. CHRISTY & CO.

4-12 Old Swan Lane, LONDON, E.C.4



A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trade in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single copy, 9d., post free; *Diary*, 10s., post free. Postal Orders and Cheques should be crossed "Bank of Liverpool and Martins, Ltd."

TERMS FOR ADVERTISING may be obtained on application to: Head Office: 42 CANNON STREET, LONDON, E.C.4

(Telegrams: "Chemicus, Cannon, London." Tele. home: Central 3617.)

Branch Offices { 4 Cannon Street, Manchester. (el.: City 52.)
54 Foster's Bldgs., High St., Sheffield. (Tel.: 22458.)
19 Waterloo Street, Glasgow. (Tel.: Central 2329.)
Melbourne and Sydney, Australia.

Contents

No. 21	Series 2546	Vol. 109
Bankruptcy Reports 625	Marriages	638
Birmingham	Menthol from Mexico	649
Analyst's Report .. 623	New Zealand Kauri	
Births	Gum	645
Books, New	Observations and Re-	
British Pharma-	fections	639
ceutical Conference 627	Optical Examina-	
Business Changes .. 623	tion Experience .. 629	
Canadian Pharmacy	Ortho, Meta, Para .. 643	
Week	Personalities	638
C. & D. Commercial	Pharmaceutical	
Compendium	Society of Great	
Coming Events	Britain	629
Company News	Pharmaceutical	
Correspondence	Society of Ire-	
D.D. Regulations	land	626
Discussed	Pharmaceutical	
Deaths	Society of	
Dental Board	Northern Ire-	
Editorial Articles ..	land	631
Draft D.D.A. Re-	Pharmacy in S.	
gulations	Africa	645
Controlling Forces	Photographic Notes ..	632
in Mercury	Proper and Suf-	
Egyptian Drug	cient Medicines ..	636
Trade	Recent Patents	621
English News	Retrospect	656
Festivities	Rubber Inquiry	650
Information Depart-	Scottish News	623
ment	South African News ..	627
Insurance Act Dis-	Spelling of Euny-	
pensing	ms	644
Iodine in Fish Pro-	Trade Marks	637
ducts	Trade Notes	637
Irish News	Trade Report	651
Japan's Foreign	Training of Appren-	
Trade	tices	634
Legal Reports	Veterinary Notes ..	633
Making Money before	Westminster Wisdom ..	642
Christmas	Winter Session	628

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Water-Soluble Glucoside.—A process for the manufacture of a difficultly water-soluble glucoside of *Adonis vernalis*, which consists in extracting the glucoside-containing residue (obtained by extracting *herba adonis vernalis* with alcohol and an adsorbing charcoal) by treatment with chloroform, evaporating to a thick brown oil, shaking with ether and water and dissolving the remaining oil, passing the solution into a liquid which mixes with the solvent and in which the glucoside is insoluble (petroleum ether) and finally purifying the precipitated glucoside. (F. Hoffmann-La Roche, A.G., Basle, 288,129.)

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Dangerous Drugs Act, 1920

(From "The London Gazette," November 20, 1928.)

REGULATIONS, DATED NOVEMBER 14, 1928, MADE BY THE SECRETARY OF STATE UNDER SECTION 7 OF THE DANGEROUS DRUGS ACT, 1920 (10 & 11 GEO. V, c. 46), FOR CONTROLLING THE MANUFACTURE, SALE, POSSESSION AND DISTRIBUTION OF BENZOYL-MORPHINE.

Whereas by Order in Council dated the fourteenth day of August, 1928, made in pursuance of Section 8 (2) of the Dangerous Drugs Act, 1920, His Majesty was pleased to declare that Part III of the Act shall henceforth apply to the drug benzoyl-morphine and to any preparation, admixture and extract containing benzoyl-morphine:

Now, therefore, I, the Right Honourable Sir William Joynson-Hicks, Baronet, One of His Majesty's Principal Secretaries of State, in pursuance of my powers under Section 7 of the Dangerous Drugs Act, 1920, hereby make the following Regulations:—

1. No person shall manufacture or carry on any process in the manufacture of benzoyl-morphine:—

(a) Unless he is licensed or otherwise authorised by the Secretary of State to do so.

(b) Except on premises licensed for the purpose by the Secretary of State.

(c) Otherwise than in accordance with the terms and conditions of such licence or authority.

2. No person shall supply or procure or offer to supply or procure benzoyl-morphine to or for any person whether in the United Kingdom or elsewhere or shall advertise benzoyl-morphine for sale:—

(a) Unless he is licensed or otherwise authorised by the Secretary of State to supply benzoyl-morphine, or unless he is licensed or otherwise authorised to manufacture benzoyl-morphine or (but so far only as regards procuring benzoyl-morphine) unless he is licensed or otherwise authorised to procure benzoyl-morphine; or

(b) Otherwise than in accordance with the terms and conditions of such licence or authority.

3. No person shall be in possession of or attempt to obtain possession of benzoyl-morphine unless:—

(a) He is licensed or otherwise authorised to manufacture or supply benzoyl-morphine; or

(b) He is otherwise licensed or authorised to be in possession of benzoyl-morphine.

4.—(1) If any benzoyl-morphine authorised under the law of any country outside the United Kingdom to be exported therefrom to any destination outside the United Kingdom is brought into the United Kingdom no person shall, without the licence of the Secretary of State, cause or procure that benzoyl-morphine to be diverted to any other destination.

(2) For the purposes of this Regulation the destination to which any benzoyl-morphine is authorised to be exported shall be taken to be the destination stated in the authority for the export thereof from the country of export.

5. In these Regulations the expression "benzoyl-morphine" includes preparations containing benzoyl-morphine.

6. These Regulations may be cited as the Dangerous Drugs (Benzoyl-Morphine) Regulations, 1928.

W. JOYNSON-HICKS,

One of His Majesty's Principal Secretaries of State.
Home Office, Whitehall, November 14, 1928.

Public Health Congress and Exhibition

Mr. Neville Chamberlain, the Minister of Health, performed the opening ceremony at the first Public Health Congress and Exhibition in the Agricultural Hall, Islington, London, N.1, on November 19. The exhibition dates are November 19 to 24 inclusive, and during the week papers are being read by experts on related subjects. The chairman, Sir Frederick Willis, introducing

the Ministry of Health, outlined the events which had led to the decision to hold such a Congress. In his address Mr. Chamberlain spoke of the Local Government Bill about to be introduced, and also stressed the importance of research if progress was to continue. The stands are chiefly devoted to household cleaning and heating appliances, as well as to machinery for sewage and other public health work. Of interest to pharmacists is the stand of Wright, Layman, Umney, Ltd., who feature their lysol, and emphasise the fact that it is British-owned. Parke, Davis & Co. devote attention to their advertised lines, such as Euthymol Tooth Paste, hydrogen peroxide and Mentholated Bronchial Lozenges, while at the back of the stall there is a range of their latest medicinal products. Bristow's medicated Ichthyol Soap and toilet preparations are shown by the Ichthyol Co., Ltd. Among other interesting exhibits are those of the Medical Supply Association, Ltd., and Yadil Products (1925), Ltd.

Export of Dutiable Hydrocarbon Oils and Preparations

The Foreign Parcels (Customs) Warrant, 1928, dated November 1, and coming into operation on that day (S.R. & O., 1928, No. 867: Stationery Office, 1d.), prescribes new regulations for delivery of dutiable hydrocarbon oils and preparations containing them from the premises of exporters for exportation on drawback by parcel post.

Inquests

At Redhill, on November 20, an inquiry was held concerning the death of Dr. George A. Boodle, Mersham, who, it was stated, had been worried about his health. A note was left by him to the effect that he had taken a large dose of morphine. Death was certified as being due to pneumonia following an overdose of morphine: a verdict of "Suicide while of unsound mind" was returned.

An inquest was held at Acton, London, W., on November 19, on the body of Frederick W. Hettich, clerk, Fortune Gate Road, Willesden. The widow stated that her husband took a large number of aspirin tablets, and when she became anxious he said, "I know what I am about." The medical superintendent of the hospital in which Mr. Hettich died said that probably ten aspirin tablets would kill a man. Apparently there had been fifty tablets in the bottle, which was empty. "This is the third case of the kind I have had within three weeks," said the coroner, in recording an open verdict. If these cases continued, he added, steps ought to be taken to provide warning labels.

Birmingham

The Students' Carnival, held to augment the funds of the General and Queen's Hospitals, Birmingham, yielded the record sum of £5,700.

A drug and optical department was opened on November 8 by the Ten Acres and Stirchley Co-operative Society, Ltd., 1286 Pershore Road, Stirchley.

The City Museum has been presented by the Rev. P. G. M. Rhodes, of Oscott College, with a collection of 3,000 British and Foreign lichens. Councillor R. H. Hume has presented a male and a female specimen of the Reeve's pheasant mounted in a case.

The first meeting of the session of the Birmingham and Midland Section of the Society of Chemical Industry was held on November 13 at the Birmingham Chamber of Commerce. An interesting contribution on "Recent Developments in Beet Sugar Manufacture," was made by Mr. J. H. Lane (Eynon and Lane).

A large gathering of the Brethren of the Provinces of Warwickshire and Staffordshire was held in the Masonic Temple, Broad Street, Birmingham, on November 15, the occasion being the jubilee celebration of the Machen Lodge, 1782, and the installation of Bro. W. H. Hodge, chemist and druggist, J.W., of Wolverhampton, the Installing Master being Bro. J. W. Parrott, I.P.M. Among those present were the Provincial Grand Master, the Rt. Wor. Bro. Colonel W. F. Wyley, D.L., and

numerous pharmaceutical brethren, including Wor. Bro. F. T. Gibson, Wor. Bro. Dr. Grant, and Bro. W. Starkey.

Sheffield

The Committee of the local branch of the Pharmaceutical Society has decided to hold the annual dance and whist drive early in January.

Councillor E. Snelgrove, late chief of the chemistry department of the Central School, has been appointed chairman of the Education Committee.

In their recent football matches Sheffield chemists defeated Crookes Traders by 3-0 and drew with Rotherham Thursday 2-2. Garner scored all the goals for the chemists.

Miscellaneous

FIRE.—Spirit vapour coming in contact with a flame caused a slight outbreak of fire, on November 16, at the premises of Bourjois & Cie, Ltd., 4 Ludgate Square, London, E.C.4. The damage was not of a serious nature.

POISON-LICENCE APPLICATIONS.—Applications for licences under Section 2 of the Poisons and Pharmacy Act, 1903, have been made to their respective local authorities by W. H. Gaze & Sons, Ltd., Kingston-on-Thames, and Mr. T. R. Williams, Bideford.

STAFF DANCE.—The first dance of the season arranged by the entertainment committee of the London staff of Burroughs Wellcome & Co. took place at the Portman Rooms, Baker Street, W.1, on November 17. It was a great success, an excellent programme of music having been provided by Morley's Orchestra. The general manager, Mr. George E. Pearson, was present, and Mr. Gordon Oakes officiated as M.C.

IN THE COURTS.—At Marylebone Police Court, London, on November 15, William Atkinson (28), described as the manager of a chemist's shop in Southampton Row, W.C., and residing in Oppidans Road, N.W., was charged with unlawfully using an instrument on Vera Boker. The evidence was taken *in camera*.—At the Guildhall Justice Room, on November 19, Thomas E. Brown (34), shop assistant, and Louis Kats (52), tobacco stripper, were charged with being concerned in stealing and receiving bottles of California Syrup of Figs, Andrew's Liver Salts and other goods, to the value of £4 10s., the property of Harry Wiseman, druggists' sundriesman, Stoney Lane, E. Brown was bound over, and Kats was sentenced to a month's hard labour and recommended for deportation.—At Lambeth Police Court, on November 20, Clara Shott (18), described as a chemist's assistant, was committed for trial on a charge of causing carbolic acid to be taken by Annie Shott, her sister, with intent to injure her.—At the Mansion House Justice Room, on November 20, White, Tomkins & Courage, Ltd., merchants, Mark Lane, E.C., were fined £20, with £10 10s. costs, for having supplied the Lambeth Guardians with rice falsely described as Rangoon rice.

Irish News

Brevities

Galway Board of Health has agreed to grant Dr. Bartley O'Beirne £20 a year for acting as compounder of medicine at Woodlands Sanatorium, Kenmore.

An outbreak of fire occurred recently on the premises of J. Blair & Son, chemists, Patrick Street, Cork. The fire brigade extinguished the flames, and the damage was slight.

Belfast

Belfast and District Chamber of Trade has extended its congratulations to Mr. W. J. Hardy, a past-president, on his election to the presidential chair of the Pharmaceutical Society of Northern Ireland.

Professor J. Small, who holds the chair of botany at Queen's University and represents the University on the Council of the Pharmaceutical Society of Northern Ireland, has been appointed president of the Belfast Natural History and Philosophical Society.

Scottish News

Brevities

Sir James Prince delivered a lecture on "Poison Gas in Warfare" at a recent meeting of the St. Andrew's League of Nations Union.

The final tie for the T. and H. Smith foursome challenge trophy of the Edinburgh Pharmacy Golf Club, played over the Broomieknowe course, resulted in a win for Messrs. J. P. Gibb and John Noble over Messrs. W. Hourston and A. McDougall by 3 and 2.

Mr. W. Spence Culbert, Airdrie, was successful at the recent municipal poll. Mr. Culbert takes a keen interest in pharmaceutical affairs as well as in local matters, and is at present vice-president of the Glasgow and West of Scotland Branch of the Pharmaceutical Society. In the field of sport his prowess is well known to most bowlers.

Glasgow

The Glasgow St. Andrews Ambulance Association is appealing for £5,000 to clear the debt outstanding on the new buildings and equipment now nearing completion in North Street.

A successful whist drive and tea, under the auspices of the Glasgow Pharmacy Club, was held in the Athenaeum Restaurant, on November 6. Mr. James Abbott presided. After tea an enjoyable programme of music and story was sustained by Miss Heron, Miss Rankin, and an instrumental quintet from the Glasgow Amateur Orchestra, arranged by Mr. H. W. Thomas. Miss Heron and Mr. C. Milburn acted as accompanists. The prizes, the gift of John Thomlinson, Ltd., were presented by Mrs. Moss to the following:—*Ladies*.—(1) and (2), Mrs. Moffat and Miss Goldberg (tied); (3) and (4), Mrs. J. Scott and Miss J. McNicol (tied). *Gentlemen*.—(1), Mr. R. B. Hamilton; (2), Mr. Sweet; (3), Mr. J. McQuat. Lady playing as gentleman, Miss F. Heron. The booby prizes were awarded to Miss Lucy Russell and Mr. E. Johnston. On the call of the chairman a vote of thanks was awarded to the donors of the prizes and the artists.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, November 27

Derby Pharmaceutical Association, King's Café, Derby, at 7.30 p.m. Joint meeting and supper with branch of the Pharmaceutical Society. Addresses by Mr. T. Marns and Mr. H. E. Chapman.

Wednesday, November 28

Liverpool Chemists' Association, Large Ballroom, Adelphi Hotel, Liverpool, at 8 p.m. Annual dance. Supper at 10.30 p.m. Tickets—10s. 6d. single and 18s. 6d. double.

London College of Pharmacy, Moorgate Street Station Restaurant, at 6.30 for 7 p.m. Annual dinner and dance. Old students specially welcomed. Tickets 8s. 6d. each. Pharmaceutical Society of Great Britain, Halifax and District Branch.—Address by Mr. J. H. Franklin on "Everyday Problems in Pharmacy."

South-West London Chemists' Association, Wandsworth Town Hall. Dance, conjointly with branch of the Pharmaceutical Society.

Western Pharmacists' Association, Café Royal, 68 Regent Street, London, W.1, at 6.30 for 7 p.m. Annual dinner. Tickets 12s. 6d. each. Ladies specially invited.

Thursday, November 29

Birkenhead and Wirral Pharmacists' Association, Masonic Temple, Clifton Road. Whist drive and dance. Tickets 3s. 6d. each.

Chemical Society, Burlington House, Piccadilly, London, W.1, at 5.30 p.m. First Liversidge lecture by Professor F. G. Donnan on "Physical Chemistry in the Service of Biology." Edinburgh Chemists', Assistants' and Apprentices' Association, Kintore Rooms, Queen Street, Edinburgh, at 8.15 p.m. Annual dance.

London Chemists' Sports Club and Script Sports Club, Hotel Russell, Russell Square, London, W.C., at 6.45 for 7 p.m. Annual dinner, prize distribution, and dance. Tickets 10s. 6d. each.

Pharmaceutical Society of Great Britain, Southampton and District Branch, Lowman's Café, Above Bar, Southampton, at 8.30 p.m. Address by Mr. G. R. Boyes on "Modern Views on Vitamins." Lantern illustrations.

Birmingham Analyst's Report

THE latest report of the City Analyst (Mr. J. F. Liverseege, F.I.C., Ph.C.) states that during the third quarter of 1928 1,098 samples were analysed under the Sale of Food and Drugs Acts. Six samples of disinfectants were examined in connection with prosecutions under the Poisons and Pharmacy Act, 1908, and were found to contain less than 3 per cent. of phenols. The articles had been sold without the name and address of the vendor. In each case the vendor was fined 10s. The following paragraphs are taken from the report:—

Iron Pills.—The single informal sample described as "5-grain iron pills" contained only 0.8 gr. of ferrous carbonate per pill; at least 1 gr. should have been present. The pills were very irregular in weight, 27 per cent. of them varying from 5-10 per cent. from the mean and another 6 per cent. being over 10 per cent. The vendor was cautioned.

Borax Honey.—Five of the thirteen informal samples were of incorrect composition. The borax present should amount to 10 per cent., but in three samples the amounts present were 2.9, 4.4 and 8.2 per cent. respectively. Two samples from one vendor were labelled "guaranteed to conform with the requirements of the British Pharmacopœia," but had been prepared with artificial honey instead of the genuine article. The vendors of the five samples were cautioned.

Sodium Citrate Tablets.—Samples containing two or three grains were of full strength and broke down well in water. In each case about 6 per cent. of talc was present. This seems to be an undesirable constituent. The manufacturer undertook not to use talc in these tablets in future.

Tincture of Myrrh.—Eleven of the thirteen informal samples varied in specific gravity from 0.851 to 0.864, and contained from 5.3 per cent. to 7.8 per cent. of total solids. Two samples were condemned, as they only contained 4.3 per cent. and 4.2 per cent. of total solids respectively, and the vendors were cautioned. The question arose as to whether the low solids in the last two samples were the result of unsatisfactory keeping. Experiments were made on this point, and it was evident that the only change taking place was concentration due to evaporation of the spirit, and that enough spirit remained to keep the dissolved matter in solution. Other samples examined included powdered charcoal, compound tincture of benzoin, acetic acid, olive oil, liquid paraffin, mercury and chalk tablets, sodium bicarbonate tablets, zinc ointment and yellow mercuric oxide ointment.

Business Changes

TAYLORS' DRUG CO., LTD., have opened a new pharmacy at 1 Finkle Street, Richmond, Yorkshire.

MR. P. R. J. ROBERTS, chemist and druggist, has opened a pharmacy at 3 Bath Street, St. Helier, Jersey.

MR. I. ISAACS, chemist and druggist, will shortly open a pharmacy at 111 High Street, Merthyr Tydfil, which is his home town.

MR. F. A. LESTER, chemist and druggist, 68 Holly Street, Barker's Pool, Sheffield, has removed his business to 17 Cambridge Street.

MESSRS. MORTONS (CHEMISTS), LTD., have taken over the businesses of Mr. Charles Sangster, chemist and druggist, Slough, who is retiring.

MR. W. DONALDSON LEES, chemist and druggist, has taken over the Arncliffe Pharmacy, Elwick Road, West Hartlepool, previously owned by the late Mr. Bush.

The Alderney Court has granted permission to MR. GEORGE G. HUGHES to practise as a chemist on taking over the business of the late Mrs. M. A. Thorpe in Victoria Street.

COMMERCIAL TRAVELLERS' BENEVOLENT INSTITUTION.—Sir Jeremiah Colman, Bt., has consented to act as president of the Commercial Travellers' Benevolent Institution for the ensuing year. The festival banquet will be held in the Grocers' Hall, Prince's Street, London, E.C.2, on April 12, 1929.

Legal Reports

Injunction Granted.—In the Chancery Division of the High Court, London, on November 20, Mr. Justice Maugham granted an injunction to the Dubarry Perfumery Co., Ltd., to restrain the defendant, Mrs. S. G. Coleman, general dealer, Wheeler Street, Birmingham, from passing off her goods, certain powder boxes, as the goods of the plaintiffs. The defendant did not appear, and the judge suggested that the plaintiffs should endeavour to get her to agree to treating the motion as the trial of the action.

Medicine Stamp Act.—In the Justiciary Appeal Court, Edinburgh, on November 16, the Surveyor of Customs and Excise appealed against a decision of the sheriff-substitute in the Edinburgh Sheriff Court holding that Zomogen, manufactured by Zomogen Food Products, Ltd., York Place, did not need to be stamped under the Medicine Stamp Act. The Court, consisting of the Lord Justice-General and Lords Sands and Blackburn, held that the article in question must be regarded as a medicine, which might have excellent properties in the way of nourishment, and that the directions for use were consistent only with its being used as a medicine and not as part of the ordinary food supplied at meals.

Unqualified Trader Fined.—At Ardee District Court, on October 15, Stephen Carney was summoned on five counts, at the instance of the Pharmaceutical Society of Ireland. Mr. Meeke, solicitor, appeared for the Society, and Mr. J. B. Hamill represented the defendant. Mr. Meeke said that the idea of the monopoly given to qualified and registered chemists was to secure that only people of training and qualifications who knew their responsibilities would be able to sell poisons. In June last the shop of the defendant in Ardee had been visited by an inspector of the Society, who had had dispensed for him some prescriptions. Powders were also obtained, and in these powders there was sufficient arsenic to kill approximately 200 people. The defendant had now taken steps to turn the business into a limited company. Mr. Walter Thorp gave evidence of the results of his analysis. The defendant stated in evidence that he had not made up the prescription. The lady who was in the premises on the occasion of the visit by the inspector was not now in his employment. Cross-examined by Mr. Meeke, the witness stated that he had taken over the premises from his brother, who had been fined for a similar offence to this. The justice imposed a fine of £5 in each of the first two summonses; in each of the three others he fined the defendant 10s., and he allowed £2 2s. expenses in each of three cases, making a total of £17 16s.

Landlord and Tenant Act, 1927.—In Leeds County Court, on November 16, Murray's Pharmacies, Ltd., Woodhouse Lane, sued Mr. George Briggs, chemist and druggist, Cliff Road, to recover compensation for goodwill, on the ground that by reason of the occupation of the premises in Woodhouse Lane for seventeen years goodwill had become attached to the premises and they could be let at a higher rent. The plaintiffs alleged, however, that such sum as could be awarded under the Act would not adequately compensate them for the loss of goodwill which they would suffer if they removed to other premises. They therefore claimed a new lease for fourteen years upon such a rental as should be determined to be proper, and, in the alternative, £950 compensation for the loss of goodwill. Mr. C. J. Frankland, for the defendant, argued that no claim could be made in the alternative. There was no machinery under Section 4 of the Act which gave the Court power to award anything other than compensation, and, if a tenant elected to proceed under Section 5, claiming a new lease in lieu of compensation under Section 4, the Court was bound by that alone. The tenant could not claim in both sections. Mr. E. R. Gurney, for the plaintiffs, submitted that Section 5 was strictly dependent upon Section 4. Judge Woodcock said that, if the interpretation claimed by Mr. Frankland was the right interpretation, the tenant would be placed in a most invidious position. The judge added: "It is unfortunate that the wording of the Act is 'He may, in lieu of claiming such compensation.' The word-

ing would have been more apt if it had said that 'He may claim in lieu of such compensation.' That is the form in which I think it ought to have been drafted. But I am not here to redraft it, but to try to arrive at a reasonable interpretation of it. I must interpret it, having regard to the utterly unreasonable result which would obtain if I interpret it in any other way, that he may claim in lieu of such compensation. Therefore I hold that it is a proper course under this Act to make these two claims in the alternative." The plaintiffs eventually agreed to accept the offer of the defendant to renew the lease for five years.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

PERFUMDRUGS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of importers and exporters of all kinds of perfumes, drugs, chemicals, toilet and other articles, etc. The directors are: L. Zisserman and W. E. Rickard. Solicitor: W. E. Rickard, 20 Gamage Building, 118/122 Holborn, E.C.1.

EPPELS, LTD. (Public Company).—Capital £1,000. Objects: To carry on the business of chemical manufacturers, merchants and agents, chemists and druggists, etc. The subscribers are: I. J. Eppel, G. O. Mitchell, H. Jones, Ina Davies, Doris V. Williams, Mrs. D. Hill and N. Hart. R.O.: 3 Margravine Gardens, S.W.

M. SAPER, LTD. (P.C.).—Capital £4,000. Objects: To adopt an agreement with Sarah Saper, and to carry on the business of manufacturers of confectionery, sugar millers and brokers, dealers in chemicals, etc. The directors are: M. Saper, Mrs. Sarah Saper, M. Vennis and L. Saper. R.O.: 5, 7 and 9 White Lion Street, E.1.

TRI-CHROME PHOTOS AND FILMS, LTD. ("Public" company).—Capital £500,000 in 4s. shares. Objects: To manufacture and deal in cameras, lenses, mirrors, reflectors, plates, films, papers, chemicals, and all kinds of photographic apparatus, appliances, accessories, etc. The subscribers are: B. J. Weaver and J. R. Beckensall. Solicitors: Mayo, Elder & Co., 10 Drapers Gardens, E.C.

SOUTHERN DRYSALTERS CO., LTD. (P.C.).—Capital £1,500 in £1 shares. Objects: To carry on the business of drysalters, ironmongers, hardware merchants, china merchants, etc. The first directors are:—J. Davidson, C.A.; F. W. Connor, drysalter; W. B. Anderson, paint manufacturer; T. Pearson, ironmonger; D. McCorquodale, drysalter. R.O.: 190 West George Street, Glasgow.

RENTOKIL (SALES), LTD. (P.C.).—Capital £1,000. Objects: To acquire inventions relating to or connected with improvements in disinfectants, insecticides, hygienic appliances relating to disinfectants and disinfecting apparatus, damp absorbers or other machines; also to acquire the benefit of certain trade marks relating to disinfectants, ointments and embrocations, etc. Solicitors: Zeffertt & Heard, 17 Coleman Street, London, E.C.2.

PERMANENT IMPORT CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of collectors, importers, exporters and shippers of medicinal and any other vegetable substances, seeds, barks, leaves, grasses and roots and all botanical substances, essential and fixed oils, perfume products and chemicals of all kinds, etc. The directors are A. H. Morris, Mrs. F. T. Morris, and Mrs. H. A. Milford. R.O.: Premier House, Southampton Row, W.C.

RADIUM SPRINGS, LTD. ("public" company). Capital £500,000. Objects: To carry on the business of owners, lessees or concessionaires of mineral, medicinal and other springs, manufacturers, importers and bottlers of and dealers in medicinal, mineral, natural and aerated waters and other liquids and liquid deposits, etc., and to adopt an agreement with the Iberian Trust, Ltd. The subscribers (each with one share) are: A. C. Barker and R. A. Parkin. R.O. is at Adelaide House, King William Street, E.C.4.

MIRCHAM POULTRY FOOD CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of glue, gelatin and fertiliser manufacturers and merchants, bone crushers, workers and merchants, grease manufacturers and merchants, manufacturers and merchants of cattle and poultry foods of all kinds, etc. The subscribers are: F. D. McLorinan and G. W. Cole. The first directors and managers shall be the British Glues and Chemicals, Ltd. Solicitors, Kenneth Brown, Baker, Baker, Lennox House, Norfolk Street, W.C.2.

THE EAST INDIA MANGANESE CO., LTD., was registered as a "public" company on October 29, with a nominal capital of £140,000. Objects: To acquire certain manganese fields in the Village of Basadera, Singbhum District, Bihar and Orissa, India; to adopt an agreement with the Dorgbun Trust, Ltd., and D. P. Barnett, and to carry on the business of searchers for, and winners, workers, miners and quarriers of ores, minerals and metallic and other substances, etc. The first directors are: D. P. Barnett and Sir Alfred H. Grant, K.C.S.I., K.C.I.E. Solicitors: Simmons & Simmons, 1 Threadneedle Street, E.C.2.

THE BRITISH OCENTRIC OPTICAL CO., LTD.—At a meeting held in London on November 9 it was resolved that this company be wound up voluntarily. Mr. W. A. J. Osborne, Balfour House, Finsbury Pavement, London, E.C.2, was appointed liquidator, and a meeting of creditors will be held at the above address on November 26.

THE GRAESSER-MONSANTO CHEMICAL WORKS, LTD., Ruabon, N. Wales.—Arrangements have been concluded under which Monsanto Chemical Works (Inc.), of St. Louis, U.S.A., have acquired Mr. Graesser's interest in this company. Mr. Norman Hugo Graesser has resigned his position as managing director and retired from the board. Mrs. Annette Stewart Graesser, Engr. Vice-Admiral Sir Robert Bland Dixon, K.C.B., and Mr. Charles Herbert Beever have also retired from the board in favour of nominees of the Monsanto Chemical Works (Inc.).

SCOTTISH AGRICULTURAL INDUSTRIES, LTD., is the title of a company in course of formation, and will acquire the greater part of the capital of the following companies:—Alexander Cross & Sons, Ltd., Glasgow; Cross's Chemical Co., Ltd., Falkirk; J. & J. Cunningham, Ltd., Leith; John Miller & Co. (Aberdeen), Ltd.; Charles Tennant & Co., of Carnoustie, Ltd.; Daniel Wyllie & Co., Ayr. The nominal capital will amount to £1,750,000, and the issued capital, which is not yet finally settled, will be approximately as follows:—6 per cent. cumulative preference shares of £1 each, 550,000; ordinary shares of £1 each, 800,000; deferred shares of £1 each, 320,000. The scheme has been prepared by Imperial Chemical Industries, Ltd., who are taking a substantial interest in the new holding company.

ILFORD, LTD.—The report for the year ended October 31, 1928, states that 150,000 ordinary shares have been allotted in accordance with the recent agreement. Since the last general meeting £52,200 has been capitalised and distributed to the shareholders as bonus shares. The property, plant, etc., was valued at March 31 last at £94,160. It stood in the last balance-sheet at £20,000, to which must be added £7,660 for additions up to date of valuation, making £27,660. The difference of £66,500 has been added to the reserve fund. The net profit for the year was £119,891 (against £76,473 for the preceding year), and £9,222 was brought forward. The directors have written £5,000 (the same) off goodwill and transferred £30,700 (against £12,000) to the reserve fund, and they propose to pay a final dividend of $7\frac{1}{2}$ per cent. on the ordinary shares, making $12\frac{1}{2}$ per cent. (the same) for the year, leaving to be carried forward £10,238.

Bankruptcy Reports

Re D. & J. Misell (David Misell & John Misell, trading as), Chemical Merchants, lately of 10 Rangoon Street, E.C. Under the failure of these debtors the first meeting of creditors was held on November 20 at

the London Bankruptcy Court. The receiving order was made on the joint petition of A. Boake, Roberts & Co., Ltd., and Bush, Beach & Gent, Ltd. Accounts were submitted showing liabilities £2,041 against net assets valued at £1,266. The debtor, David Misell, had stated in preliminary examination that in or about May 1926 he and his son Julian decided to start in business together as chemical merchants under the above style; no deed was prepared, but the profits were to be shared equally. They first traded at 15, Cooper's Row, E.C., removing 12 months later to more convenient but more expensive premises at 10 Rangoon Street, E.C. Latterly the amount of business done was not sufficient to warrant the drawings and expenses, and early last month, in consequence of pressure by creditors, a meeting of the creditors was called and a deed of assignment was executed in favour of Mr. W. A. J. Osborne as trustee for the creditors. The failure of the firm was attributed to want of capital and heavy overhead expenses. Mr. Chas. Latham, accountant, 8 New Oxford Street, W.C., was elected to the post of trustee.

Private Arrangements

Arthur Bramall, chemist and druggist, 531 Manchester Road, Stocksbridge, near Sheffield.—A meeting of the creditors was held recently at the Law Society's Rooms, Sheffield, when the representative of the Association of Manufacturing Chemists, Liverpool, was elected to the chair. The statement of affairs showed ranking liabilities of £1,141 15s. 7d., made up as follows: Trade creditors, £468 17s. 5d.; cash claims, £588; bank overdraft, £26 4s. 10d.; and partly secured creditor, £58 13s. 4d. The total claim of the latter was £78 13s. 4d., and as security they held a policy on the debtor's life. After allowing £3 for preferential claims the net assets were £563, or a deficiency of £578 15s. 7d. The assets consisted of shop fixtures, fittings and furniture, £100; stock, £450; and book debts, £16. It was stated that prior to commencing business on his own account the debtor was the manager of a well-known drug company. In October 1922 he purchased a business for £450, borrowing about £400 from relatives. He commenced trading at Bolton-on-Derne, but the takings were small, and in December 1923 he took empty premises at the above address and transferred his business. In 1925 the takings averaged £28 a week, but the following year they went down to £27 weekly, and in 1927 dropped to £25 a week. Trading figures for the present year were not available, but the debtor stated that the takings had fallen to about £16 or £17 a week. A resolution was passed confirming the deed of assignment already executed to Mr. J. E. Boler, C.A., of 45 Bank Street, Sheffield, and a committee was also appointed, consisting of the chairman and a representative of Exell Bros. and James Woolley, Sons & Co. The principal creditors are: Tolkien & Co., Ltd., £21; Seagrave & Co., £24; Woolley, James, Sons & Co., Ltd., £57; Ayrton, Saunders & Co., Ltd., £34; Hartley, E., and Son, £17; Johnson & Johnson (Great Britain), Ltd., £15; Cupal, Ltd., £11; Hirst, Brooke & Hirst, Ltd., £112; Exell Bros., £59.

Voluntary Liquidation

E. S. Hill & Co., Ltd., perfumers, 23 Old Bond Street, London, W.—The statutory meeting of the creditors of the above was held recently at the Holborn Restaurant, London. Mr. H. Kidson, accountant, reported that on September 20 last Mr. C. S. Steel, C.A., was appointed as receiver under a debenture issued in December 1927 for £3,000. The receiver had obtained an offer of £6,000 for the business, subject to certain conditions. The company was registered in 1921, and it took over a business which had been in existence for a great number of years. The balance sheet for 1927 showed a net loss. The present position was attributed to a heavy loss in another company. The liabilities to the trade were approximately £2,000, and it was thought that if the business could be sold at the figure mentioned, there would be more than sufficient to pay the creditors in full. Even if the sale in question went off, it was thought that there would be no difficulty in disposing of the business at a price which would allow the creditors to receive 20s. in the £.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on November 13, Mr. F. J. Fitzpatrick (president) in the chair. The following members of the Council were also present:—Mr. D. J. Nugent (vice-president), Dr. Michael Ryan (treasurer), Dr. J. A. Walsh, Dr. J. A. Mitchell, Sir Thomas Robinson, Messrs. J. J. R. Kerr, P. J. Fielding, M. J. Kieran, P. Liston, Joseph Gorry, P. D. Larkin, J. J. Roche, T. J. Doyle, W. P. J. Gannon, and Patrick Brooke Kelly. Messrs. Philip Brady, James McCormack, D. Warwick and P. Kieran sent apologies for non-attendance.

THE PRESIDENT'S THANKS

THE PRESIDENT, referring to his re-election at the October meeting, said that as he was not present he thought it was his duty to return thanks for the confidence they had placed in him. He hoped to carry out his duties in the future as he had done in the past. He was very grateful for the compliment they had paid him.

LETTER FROM EXAMINER

The registrar read the following letter from Mr. Thomas J. Smith, M.P.S.I.:—

"Having been appointed Lecturer in the Society's new School of Pharmacy, I beg to tender my resignation as examiner for the Licence examination. In doing so I beg to place on record my appreciation of the manner in which any suggestions which I have made for the better equipment of the examination room were received and acted upon. In the system of marking as handed on from previous examiners I found it necessary to make some changes to ensure a more accurate estimate of the marks gained by each candidate. In co-operation with Dr. Robinson a definite mark value was placed on each prescription given in the practical section of the examination, the total gained by each candidate being subject to a deduction according to a sliding percentage scale for any prescriptions not completed, as a penalty for slow dispensing. This system replaced the system of marking on a general basis then in vogue, and I afterwards extended it to the oral section of the examination. To facilitate the systematic marking of this section the greater part of the large prescription book has been indexed, the prescriptions being divided into three grades, according to difficulty. During my tenure of the position I was accorded every assistance and help on the part of the Council visitors and the Society's registrar. . . ."

THE PRESIDENT said the School of Pharmacy was an unprecedented success. There were twenty-four students three nights after it started; there were thirty students on the fifth night; and subsequently they had to turn them away. The system adopted in it was very good. Mr. Smith was an idealist as regards practical pharmacy. He (the president) thought the School would bring great credit to the Society in the future.

CHANGES OF ADDRESS

The following notified changes of address:—

Mr. E. A. Evanson Ashe, M.P.S.I., to Termon, Iona Drive, Glasnevin, Dublin; Mr. A. Hamilton Cooke, Ph.C., to c/o Messrs. Lester, Ltd., St. Patrick Street, Cork; Mr. John Curran, Ph.C., to 2 Haigh Terrace, Dun Laoghaire, co. Dublin; Mr. James Johnston, Ph.C., to 32 Palm Road, Romford, Essex; Mr. Wm. Kelly, Ph.C., to The Clonakilty Pharmacy, Ltd., 49 Sovereign Street, Clonakilty, co. Cork; Mr. Allan M. McCurdy, Ph.C., to The Medical Hall, Burrow, Leix; Mr. Martin J. Ussher, Ph.C., to 108 St. Patrick Street, Cork; and Mr. Stephen Whelan, Ph.C., to 3 Grosvenor Place, Wellington Road, Cork.

PRELIMINARY REGISTRATION

The following, who submitted certificates from other bodies, were admitted to Preliminary registration:—

Miss Olive M. Mackey, 20 Quinsboro' Road, Bray (subject to her showing that Latin was one of the subjects in which she had passed); Miss Angela Devine, 2 Marino Mart, Fairview, Dublin; Mr. Hugh T. O'Neill, The Square, Castletownbere, co. Cork; Mr. John J. McCarthy, McGuire's Medical Hall, Listowel, co. Kerry; Mr. Francis J. Gallagher, 21 Greville Street, Mullingar, co. Westmeath; and Mr. P. M. Bolger, Maryboro', Leix.

REPORTS FROM COMMITTEES

Reports from the Law Committee, the House Committee, the School Committee, and the Benevolent Fund Committee were received and adopted. It was decided to make an additional purchase of sixty Savings Certificates at £46 10s. out of part of the money subscribed to the Benevolent Fund. A vote of thanks to the subscribers was passed.

REPORTS FROM EXAMINERS

The registrar submitted reports from the examiners, from which it appeared that six candidates presented themselves for the Preliminary examination, of whom three passed; that there were twenty-four candidates for the Pharmaceutical Licence examination, of whom five passed, Mr. Michael J. Mulreany passing with honours (241 marks); that for the Pharmaceutical Assistant examination nine candidates presented themselves, of whom four passed; and that there were eleven candidates for the Registered Druggist examination, of whom eight passed.

RE-ELECTION OF EXAMINERS

On the motion of the VICE-PRESIDENT, seconded by Mr. KERR, Mr. A. O'Farrelly, M.A., F.I.C., and Mr. G. C. Hewson, M.P.S.I., were re-elected as examiners for the Licence examination, and Dr. J. Devane, M.A., M.B., was re-elected as examiner for the Preliminary examination.

NOTIFICATION OF DEATHS

The registrar notified the death of the following:—Mr. J. Maxwell, Ph.C., Kingsmere Avenue, Belfast; Mr. J. S. Shortt, Ph.C.; and Mr. J. R. Gorman, R.D., Ballymote.

ERASURE FROM REGISTERS

On the motion of the VICE-PRESIDENT, seconded by Mr. KERR, authority was given to the registrar to erase from the Registers the names of the following chemists and druggists to whom registered letters were sent on October 28, 1927, and May 14, 1928, and from whom no answers had been received:—

Daniel Brogan, Castlepollard; Anne Delaney, Maryborough; James Doran, High Street, Kilkenny; Jane E. Moore, Killucan; James Mahony Templemore; Alexander Mullen, Castlederg; T. L. O'Callaghan, Killucan; Patrick Stuart, 27 Madrid Street, Belfast; and James Waldron, Claremorris. Authority was also given to erase the names of Mary White, chemist and druggist, Skerries, and Martin McDonnell, chemist and druggist, Roscommon, envelopes addressed to whom had been returned marked "deceased," and also the name of George Atkinson Webb, Ph.C., 141 York Terrace, Belfast, letters sent to whom on November 7, 1927, and May 14, 1928, had been returned.

ELECTIONS

The following were elected to membership:—

Mr. Michael J. Broderick, Ph.C., 62 St. Patrick Street, Cork; Mr. James J. Dalton, Ph.C., c/o Mrs. Shevlin, Strokestown, co. Roscommon; and Mrs. B. R. McMichael, Ph.C., Anne Street, Ballycastle, co. Antrim (proposed by the vice-president and seconded by Mr. M. J. Kieran); and Mr. Thomas R. Hunt, Ph.C., M.R.C.V.S., Mitchelstown, co. Cork (proposed by Mr. Gannon and seconded by Mr. Doyle).

NOMINATIONS

On the motion of Mr. FIELDING, seconded by Mr. KIERAN, the following were nominated for membership:—

Mr. John Paul Lamphier, Ph.C., c/o Leonard's Medical Hall, Talbot Street, Dublin; Miss Mary Marshall, Ph.C., 3A Sandymount Green, Dublin; and Mr. James P. Bourke, Ph.C., 27 Upper Merrion Street, Dublin.

Lecture

THE meeting held at 67 Lower Mount Street, Dublin, on November 13, under the auspices of the Society, to listen to a lecture by Dr. Stanley White, was well attended by pharmacists, members of the medical and veterinary professions, and students. The audience overflowed into an adjoining room, and several people had to be turned away. Mr. F. J. Fitzpatrick, president of the Society, who was in the chair, expressed the pleasure it afforded him to welcome Dr. White.

Serums, Vaccines and Allied Products

Dr. White's lecture was illustrated by lantern slides and a cinematograph film depicting the methods used in the manufacture of serums and allied products. The first reel showed the isolation of the diphtheria bacillus from the throat of a patient. The organism was grown in a suitable medium, the toxin collected and standardised in a guinea-pig prior to its being used to immunise the horse. The film showed the way in which the animals were tested to ensure that they were free from disease and then immunised. The second reel dealt with the preparation of vaccines and the way in which they were standardised by a bacterial count. The last film dealt with the work going on in the research laboratory, and showed the human volunteer who was utilised for the purpose of standardising the scarlet fever antitoxin, the necessity of utilising the human agent arising from the fact that no experimental animal has yet been found suitable for the purpose. Dr. White explained, with the aid of lantern slides, certain aspects of the research work. He spoke of the Schick test. Dr. White referred to the remarkable results which had followed the use of scarlet fever antitoxin, and spoke of the use of the antitoxin as one of the greatest advances in serum therapy since the principles were first put forward by Behring in 1891. The lecturer explained how a vaccine differed from a serum. He referred to the results which had followed the use of typhoid vaccine for preventive purposes. The work of Sir Almroth Wright, a Dublin man, and a graduate of Dublin University, was mentioned. Dealing with the question of influenza, Dr. White explained the difficulties which exist in the matter of dealing with the disease. He referred briefly to tuberculosis and to the various methods used for testing for it. In his concluding remarks the lecturer referred to the remarkable sensitiveness which certain people exhibited to different forms of food, certain animal proteins, pollens, and drugs. It was possible to immunise these people by gradually increasing doses of the offending protein.

Vote of Thanks

Mr. JOHN SMITH, M.C.P.S.I., proposed, and Mr. BRUNKER, managing director of Boileau & Boyd, Ltd., seconded a vote of thanks to Dr. White.

DR. JAMES ASHE supported the vote, and expressed the indebtedness of the medical profession to Dr. White for his lecture.

Mr. FITZPATRICK, in putting the vote of thanks (which was warmly passed), referred to the value of punctuality as illustrated by that meeting.

British Pharmaceutical Conference

A MEETING of the local Executive Committee of the British Pharmaceutical Conference, 1929, was held at 67 Lower Mount Street, Dublin, on November 14. Mr. F. J. Fitzpatrick, chairman of the committee, presided; and there were also present Mr. D. J. Nugent (vice-chairman), Sir Thomas Robinson (local treasurer), Mr. Victor E. Hanna (local secretary), Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. John Smith, Patrick Brooke Kelly, P. Liston, M. J. Kieran, P. J. Fielding and J. J. Roche. The dates for the Conference (June 24 to 28) were finally agreed upon. A letter was read from the Town Clerk, Dublin, confirming the use of the Mansion House for the meetings of the Conference. The following skeleton programme was tentatively agreed upon:—Monday, June 24, reception; Tuesday, banquet; Wednesday, ball; Thursday, cabaret and dance; Friday, theatre for those members of the Conference who remain over. A letter was read from a Dublin firm intimating that they would like, as their contribution to the Conference entertainments, to provide a garden party in the Zoological Gardens during Conference week. Mr. John Smith and the local secretary were directed to interview the representatives of the firm before the Committee came to a final decision. The question of a garden party at the Vice-Regal Lodge was adjourned to the next meeting

of the Committee. The consideration of Mr. Smith's suggestions as to Reception, Publicity, Entertainment, Excursion and Housing subcommittees was postponed until the next meeting. A circular for distribution was submitted for approval, and Dr. Walsh was asked to take charge of the matter. The formation of a wholesale section subcommittee was approved of, and the local secretary was directed to communicate with Mr. H. C. Grimes, representative of Evans Sons Lescher & Webb, Ltd., asking him to act as chairman of the subcommittee, and with Mr. H. N. Bream, of A. de St. Dalmás & Co., Ltd., asking him to act as secretary. It was also suggested to ask these gentlemen to get together as large a committee as possible of wholesale representatives with a view to doing all they could to bring the Conference before those in the trade with whom they came in contact day by day. It was also agreed that permission be granted to collect subscriptions, to be forwarded to Sir Thomas Robinson. Arrangements were discussed for broadcasting the speeches of the principal speakers at the banquet.

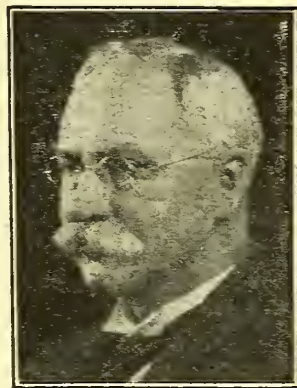
South African News

From "C. & D." Correspondents.

"The Chemist and Druggist" is supplied weekly to members of Chemists' Societies in South Africa.

Orange Free State

MR. FRANCIS CARTER, Ph.C., of Bloemfontein, who has been elected as the representative of the Orange Free State on the new Union Pharmacy Board of South Africa, was born in West London. He was educated at the Marylebone Grammar School (the Philological School), was apprenticed to the late Mr. James Isherwood, Ph.C., of Bromley, Kent, and transferred to Mr. Herbert Gouliden, Ph.C., who purchased Mr. Isherwood's business. He qualified in July 1879, and passed the Major in December 1879, studying at Luff and Woodland's school. He was subsequently assistant with Clarke & Walsh, of Richmond, Surrey, and F. Kingsford & Co., Piccadilly, London, W. Later, he was in business at Carshalton and Wallington, Surrey, for eighteen years. Mr. Carter volunteered for active service during the Boer War, and proceeded to South Africa as quartermaster of the Welsh Hospital. He received the Queen's S.A. medal with two bars. On termination of his service with the Welsh Hospital he settled in Bloemfontein and found employment with Heynes, Mathew & Co., and later was manager of the well-known pharmacy of the late Dr. Petersen. He commenced business on his own account in Bloemfontein in 1902 and is still actively engaged in pharmacy in that town. A founder of the Pharmaceutical Society of Orange River Colony (now O. F. State), he has been president on more than one occasion, and is at present honorary secretary and treasurer. He was elected a member of the Medical and Pharmacy Council of the O. F. State some seven years ago, has been re-elected twice since at triennial intervals, and is a member of the executive. Mr. Carter has acted as examiner in dispensing, practical and theoretical pharmacy and materia medica during the last twelve years, and is extra-mural lecturer on pharmacy to Grey University College, Bloemfontein. He is a member of the Council of the Associated Pharmaceutical Societies of South Africa. Mr. Carter is a prominent freemason (P.M. 1892 E.C.), treasurer and trustee 942 S.C., and a past District or Provincial Grand Lodge Officer in the English, Irish and Scottish Constitution.



MR. FRANCIS CARTER

Draft Regulations Discussed

THERE were about ninety members present at a meeting of the North London Pharmaceutical Association, held at the Branch Library, Manor Gardens, N.7, on November 20, when Mr. Herbert Skinner, president of the Pharmaceutical Society of Great Britain, and secretary of the Association, delivered an address on "The Draft Consolidated Regulations under the Dangerous Drugs Acts, 1920-1925." Mr. D. Anderson (vice-president) took the chair in the absence of the president, and before the ordinary business of the meeting suitable reference was made to the death of Messrs. S. B. Bately, Edmund White and J. H. P. Bolton, and also the wife of Mr. J. McRostie. A vote of condolence with the relatives was passed by members standing in silence.

Mr. SKINNER, in his address, first paid a compliment to the effort to consolidate the somewhat confusing Regulations under the Dangerous Drugs Acts, which comprised no fewer than seven series and three Acts of Parliament. At the same time, he felt it was his duty to call attention to certain modifications which he felt were material. He outlined the new position under the Geneva Convention, which was a natural consequence of The Hague Convention in 1912, and through the Treaty of Versailles into the international agreement which took place between November 1924 and February 1925, resulting in the passing of the Dangerous Drugs Act, 1925. This, he explained, was an enabling Act to carry out certain things when the necessary signatures had been obtained for the agreement at Geneva on February 19, 1925. He called attention to the preamble of the Act passed in August 1925, which was "an Act to amend the Dangerous Drugs Act, 1920 and 1923, so far as is necessary to enable effect to be given to a Convention signed at Geneva." In effect this meant that as soon as that enabling Act came into force the guiding spirit of the Acts was international and no longer national. That was an important point, and this being clear, it was well to consider the Regulations. For the most part it was too late in the day to say anything, since they were a reiteration in simpler language in many instances of the Regulations they all knew. First, Mr. Skinner drew attention to the emphasis laid on the Regulations regarding a person administering the drugs to "himself." These were good enough so long as the main drugs were affected, but utterly ridiculous to emphasise when one considered the dilutions of heroin. The next point he dealt with was the meticulous specification about the recipient having to give a messenger a written statement for the supplier to hand over a medicine for the patient, who might be in bed and perhaps unable to give a signed authority. He was surprised that anyone should have made such a detailed Regulation when "*bona fide*" would have been sufficient. Turning to the original Act, in which it was stated that the Home Secretary should consult with the Pharmaceutical Society, he pointed out that in new Regulations a reservation was made that such consultation should not prejudice any action which the Home Secretary might take. With reference to the possible triplication of supply, Mr. Skinner emphasised that the original supplier had the monopoly, since he must retain the prescription. Coming to the crucial questions, first of Indian hemp, he pointed out that the term used was "extracts and tinctures of Indian hemp," while in the Geneva Convention the term was galenical preparations (extract and tincture) of Indian hemp. He submitted that what could not come within this definition was outside the Act, and quoted in detail Section 3 (1), emphasising that "any preparation, admixture extract or other substance" pertained to diacetylmorphine and had nothing whatever to do with Indian hemp. If it had, the draftsmanship was faulty and the Regulations should be modified. Referring to dilutions of diamorphine, he explained the steps that had been taken. The results of the efforts to obtain evidence had been disappointing, but the Pharmaceutical Society's Council had done its best, and was still proceeding, to find some preparations which could not be abused. The machinery was bound to be slow. He could not help thinking that insufficient attention had been given to the value of heroin dilutions in Great Britain, whose inhabitants were particularly liable to bronchial troubles. Chemists had been urged to get

rid of stocks of these dilutions, but he warned them to do it wisely, since anyone who bought a preparation would be a person not authorised to have possession of it after January 1 next. He had thought and he felt it was legitimate to expect the Regulations would not come into being before the bronchial season was practically over, but that was not to be. The date might yet be postponed. In conclusion, Mr. Skinner said that the title "pharmacist" could not be held to include corporate bodies, and he declared that what was good enough for dentists should be good enough for chemists.

At the close of his address Mr. Skinner answered a number of questions, and the meeting concluded with a vote of thanks proposed by the chairman.

Associations' Winter Session

Bath.—The annual meeting and social evening of the Bath Pharmaceutical Association took place at the Old Red House on November 15, when about seventy people attended. The winners in a whist drive were Mrs. Wilson and Mr. Dickinson. After supper, the president (Mr. Luther Wilson) proposed Mr. J. G. H. Hawes as his successor during the ensuing year, a choice that was heartily endorsed. Mr. Hawes, on taking the chair, moved the appointment of Mr. T. Rees as vice-president; this also was carried. The remainder of the evening was occupied with dancing and music; those contributing to the programme were Miss Enid Evans (who has qualified for the semi-final at Bristol of the national piano playing contest and is a daughter of Mr. D. A. Evans, a leading Bath chemist), Miss Gough, Mr. W. Dale, Mr. Burgess and Mr. Pincombe.

Birkenhead.—A meeting of the Birkenhead and Wirral Pharmacists' Association was held on November 14, the president (Mr. F. C. Cooling) in the chair. The speakers were Mr. H. H. Marshall and Mr. H. E. Chapman, who gave addresses on the P.A.T.A.—*What the Retailer Owes to its Work*. Mr. Marshall reminded the members of the old price-cutting days, saying that this could be a good policy so long as one man did it, but when every retailer proceeded to cut prices disaster soon came. Mr. Chapman endorsed and amplified Mr. Marshall's remarks. The P.A.T.A., he said, had become the chief money-making concern in business, for a modest estimate of the proprietary medicines sold throughout the country per annum was £20,000,000. A vote of thanks was proposed by Mr. C. H. Wright.

Brighton.—At a meeting of the Brighton and Hove Association of Pharmacy, on November 16, Mr. A. J. Franklin (president) in the chair, addresses on P.A.T.A. matters were given by Mr. A. T. Tyler, member of the P.A.T.A. Council, and Mr. J. A. Kenningham, organising secretary. Before calling on the speakers, the president referred to the death of Mr. Edmund White. Mr. Franklin also mentioned that Councillor Yates had undergone a severe operation, but was progressing well. A resolution of sympathy with Mr. Yates was passed. In the course of his address, Mr. Tyler described the conditions, as far as the sale of proprietary articles was concerned, of the retail trade thirty years ago. Mr. Kenningham associated himself with Mr. Franklin's remarks about Mr. White. He stated that the P.A.T.A., apart from the material benefits it produced, was responsible for removing personal enmity between retailers. Mr. Edgar Jones, in proposing a vote of thanks to the speakers, reminded them that the Brighton and Hove Association was older than the P.A.T.A.

Edinburgh.—The opening meeting of the fifty-first session of the Edinburgh Chemists', Assistants' and Apprentices' Association was held at 36 York Place, Edinburgh, on November 14, Mr. George Hedderwick (vice-president) in the chair. Mr. Colin Gunn, Ph.C., secretary, submitted the report on the summer session, and the usual votes of thanks were awarded. The chairman paid a high tribute, supplemented by Mr. Hill, to the late Mr. Samuel Crowden, for some years secretary of the Association, to whose labours much of its success had been due. Mr. Henry Stout, Ph.C., ex-president,

presented the prizes, as follows:—Ewing prize in theoretical pharmacy—(1) Miss Elsie Inglis (pupil of Mr. A. E. Kelly, Edinburgh), (2) Mr. Charles Collins (pupil of King & Sons, Edinburgh). Cumming prize in practical pharmacy—(1) W. J. C. Mowat (pupil of John S. Stewart, Auchtermarder), (2) J. Geddes (pupil of H. McGowan, Fauldhouse). Duncan prize in botany—C. Ritchie (pupil of H. C. Baildon & Son, Edinburgh). Dey prize in chemistry and physics—C. Alexander (pupil of A. M. Boyne, Leith). A vote of thanks was awarded to Mr. Stout and the donors of prizes. The chairman then called on Miss Margaret McA. Smith to give her inaugural address on *Fungi and Fungous Diseases in Plants*. Miss Smith dealt with the characteristic structures and life history of the Myxomycetes, Schizomycetes, Phycomycetes, Axcomycetes and Basidiomycetes. The diseases of animals and plants caused by fungi and methods of controlling, as regulation of cropping, selection of seeds, immunation, use of fungicides, etc., were explained. The lecture was illustrated by a series of lantern slides, lent by Dr. R. Stewart MacDougall.

Liverpool.—Mr. W. I. Scholes (Eccles) lectured on *A Trip to New Zealand* at a meeting of the Liverpool Chemists' Association, on November 14. Mr. Scholes said that the conditions of chemists and druggists in that country were similar to those obtaining here. In the different towns there was the same competition. The only advantage chemists seemed to have in New Zealand was that they got better prices for dispensing. Mr. Scholes was thanked for his address. The meeting, over which Mr. John Jones (president) presided, passed a vote of condolence with the family of the late Mr. Edmund White.

London (S.E.).—A meeting of the South East London Chemists' Association was held at Greenwich, on November 6, Mr. W. T. Tucker in the chair. At the conclusion of the ordinary business a discussion on *National Health Insurance Matters* was opened by Mr. A. J. Wing, member of the London Pharmaceutical Committee. Considerable interest was shown by the number and variety of the questions which were put by members. A vote of thanks to Mr. Wing for the lucid statement he gave and for the answers to questions was passed.

Women Pharmacists.—The National Association of Women Pharmacists met at 17 Bloomsbury Square on November 14, when Miss Andrews gave an account of her recent six months' holiday in California. Miss Dennis Hayes (president) occupied the chair. The lecture was illustrated by lantern slides. The vote of thanks to the lecturer was proposed by Miss Edmund. The president expressed the hope that all members would support the dance on January 10 at the Suffolk Galleries.

Optical Examination Experience

A CORRESPONDENT (12/10) who recently passed the supplemental examination of the Worshipful Company of Spectacle Makers writes as follows:—I was first of all taken into a darkened room in which were several tables, each having a model eye on a stand. These eyes had abnormal retinas and fundi, and I was asked to examine two given ones with my ophthalmoscope and make a note of any abnormalities I detected. Ten minutes was allowed for each eye. After this, I was asked to wait my turn for an oral examination, and in due course I was ushered into the presence of the examiner. He asked me first of all what I had seen in the eyes which I had examined, and after giving my report, I was asked the following questions among others:—What is glaucoma, and what are its most prominent symptoms? What is a scotoma, and which is the most common one? What is the characteristic feature of the scotoma for toxic amblyopia. What is albinism, and how does it affect the colour of the fundus and iris? Which two ocular troubles cause intra-ocular tension, and why? What is conical cornea, and how it is detected? After about twenty minutes of this sort of thing, I was told I could go, and a few days later came the welcome news that I had passed.

Pharmaceutical Society of Great Britain

Branch Meetings

Edinburgh.—A meeting of the Edinburgh and South Eastern Scottish Branch was held in Kirkcaldy, on November 14, Mr. David Harley (Musselburgh) in the chair. The chairman said they were privileged to have with them two pharmacists who were adequately fitted, because of their position and experience, to deal with the subject to be discussed—*Examinations and how to tackle them*. He had pleasure in calling on Mr. J. J. Blackie, Ph.C., who would deal more especially with the subjects of the Preliminary Scientific examination. Mr. Blackie said he had no intention of laying down a scheme of study by which a student might tackle the examination. That was adequately done in the well-equipped training institutions they had. The examination in chemistry had been considerably curtailed, both in the practical and in the oral. Methods of preparing chemical substances were frequently known, but there was an insufficient knowledge of their properties. In physics students recognise apparatus shown to them, and can repeat the various laws of physical science, but are unable to explain the laws in simple terms or to make a practical application of them. In botany he strongly recommended acquiring an interest in the subject by field botany during apprenticeship. Many students presented themselves with a great quantity of text-book knowledge. The chairman called upon Mr. C. B. P. Milburn, Ph.C., to deal with the subjects of the Chemist and Druggist Qualifying examination. Mr. Milburn said in pharmacognosy there was a tendency to mere memorising of the text-book. The practical association of the actual drug with text-book information was the only safe way to get a real knowledge. It was regrettable that in pharmacy there were more failures than in any other subject. Many failures were due to arithmetical errors. Percentage calculations were a fruitful source of mistakes. Another common mistake was placing the wrong directions on a label. Another not uncommon error was to take down a wrong bottle. The seriousness of these blunders is very evident. Many of these blunders would be rendered impossible had the student been through a proper course of shop training. Any failure in this elementary shop training was not a matter for which they could blame the teachers. Mr. D. B. Bott said it was some time since he had practical contact with the examinations, and many changes had taken place. The idea of pharmaceutical examinations was to set up a class of persons qualified in the compounding and dispensing of medicines and also in the handling of poisons. He doubted the expediency of having professional examiners, his view being that from their own ranks they could furnish persons competently qualified to examine sufficiently in the various subjects. Mr. Thomas Wilson said that the point to be considered by examiners was whether a candidate was sufficiently educated and trained to be registered as a person to dispense medicines and deal with poisons in a manner to secure public safety. Dr. Tait said Mr. Blackie and Mr. Milburn had spoken from the point of view of those who had to meet candidates, sometimes at their best and not infrequently at their worst. One practical point of considerable importance was attention to proper nourishment. Many candidates suffered severely from physical exhaustion owing to neglect of proper food. On the motion of the chairman a vote of thanks was awarded to Messrs. Blackie and Milburn. Mr. J. Rutherford Hill, being called upon by the chairman, answered some questions bearing upon examination certificates, and explained the present position in regard to the Dangerous Drugs Act Consolidated Regulations, and also in regard to the Departmental Committee on the Poisons and Pharmacy Acts. After the usual votes of thanks the company gathered in the Carlton Restaurant, where tea was served.

THE Crewe Tradesmen's and Multiple Managers' Association has decided to take steps to have the late shopping night in the town changed from Saturday to Friday.

Festivities

Ipswich Golfers' Social Evening

MEMBERS of the Ipswich and District Chemists' Golf Club spent an enjoyable evening recently at the Great White Horse Hotel, Ipswich, at the invitation of their president (Mr. J. A. Symonds), who was in the chair. The function took the form of an informal supper, followed by songs and community singing, intermingled with a few brief speeches. Opportunity was taken to present to the winner, Mr. A. H. Veale, the silver challenge cup which Grimwade, Ridley & Co. gave to the club.

A Blackpool Function

A SOCIAL EVENING, arranged by the Blackpool Branch of the Pharmaceutical Society, was held on November 14, in the Clifton Hotel. The president, Mr. J. Holdsworth, and Mrs. Holdsworth, received the guests, who numbered about 120. After whist, dinner was served, and dancing followed. The prizes were presented by Mrs. J. Holdsworth, who won the first award. Other whist winners were Mrs. E. Jameson, Mrs. Hargreaves, Miss Grimshaw, Messrs. S. E. Coope, Mawer, A. M. Whitehead, J. Holdsworth, Townshend, S. Briggs and Boilliell.

Manchester Masonic Function

THE FIRST LADIES' Evening of the present season of the Manchester and District Pharmaceutical Masonic Association was held on November 14 at the Grand Hotel, Manchester. In the unavoidable absence of the chairman (Wor. Bro. A. Crossley), the guests were received by the vice-chairman (Wor. Bro. E. Walters) and Mrs. Walters. During the dinner the following toasts were honoured:—"The Chairman," by Bro. S. H. Hummel.—"The Ladies," by Bro. J. McCutcheon.—"The Visitors," by Wor. Bro. C. H. Griffiths.—The replies were briefly given by Wor. Bro. E. Walters, Mrs. Walters and Bro. Owen respectively. A whist drive followed, conducted by Bro. T. Leigh Bennett; the prize-winners were:—*Ladies*: (1) Mrs. F. D. Gee; (2) Mrs. Belshaw; hidden number, Mrs. Bridgford; highest single score, Mrs. Brown; travelling prize, Mrs. I. Peace. *Gentlemen*: (1) Bro. S. H. Hummel; hidden number, Bro. Reid; hooby prize, Bro. F. D. Gee. The following officers have been elected for the season 1928-29:—*Chairman*, Wor. Bro. A. Crossley; *Vice-Chairman*, Wor. Bro. E. Walters; *D.C.*, Bro. T. Leigh Bennett; *Honorary Secretary*, Bro. A. Newton. Bro. J. McCutcheon has been appointed to the committee.

An Evening's Whist in Northern Ireland

MR. FRED STOREY, president of the Chemists' and Druggists' Society of Ireland, and Mrs. Storey gave a whist drive at their residence, "Maormar," Cultra, on November 14, to the members of the Society and their friends. Advantage was taken of the occasion to invite Mr. W. J. Hardy, president of the Pharmaceutical Society of Northern Ireland, Mr. J. C. Culhert, president of the North Irish Pharmacists' Association, and Mr. D. A. Taylor, president of the Ulster Retail Drug Trade Association, who is also a member of the Chemists' and Druggists' Society. Owing to other engagements Messrs. Hardy and Culhert were unable to be present, but other officers of the respective Societies attended, including Mr. James Dundee (treasurer of the Pharmaceutical Society), Mr. David Kirkpatrick (secretary), and Mr. John Adams (secretary of the North Irish Pharmacists' Association). Among other members of the trade present were Messrs. W. J. Rankin, Samuel Gibson, W. J. Gibson, Samuel McDowell, W. E. Wilson, W. Martin, S. Suffern, R. A. Jamison and others. Supper was provided during an interval in the play, and at the close of the evening it was announced that the first ladies' prize had been won by Mrs. Dundee and the first gentleman's prize by Mr. McQuisten. Booby prizes were also presented. Mrs. Storey having handed over the gifts, Mr. W. E. Wilson moved a vote of thanks to the host and hostess of the evening. They all knew how hard Mr. Storey had worked for the Society, how he had kept the social element in the forefront, and they were all deeply indebted to him for a pleasant evening. Mr. James Dundee, on behalf of the Pharmaceutical

Society, and Mr. John Adams, on behalf of the N.I.P.A., also joined in the expression of thanks to the host and hostess. Mr. Storey, replying, referred hopefully to the proposed amalgamation of the various trade organisations in Belfast.

Reigate and Redhill Dinner

THE annual dinner of the Reigate and Redhill Branch of the Pharmaceutical Society and the Reigate, Redhill and District Pharmacists' Association was held at the White Hart Hotel, Reigate, on November 14. The company constituted a record in numbers. A pleasing incident was the presentation of a pair of silver entrée dishes, a cheque, and an illuminated address to Mr. W. H. Fowler, the first secretary of the local branch and present treasurer. Mr. W. J. Bush presided. Mr. T. P. Padwick, in the name of the Association, made the presentation to Mr. Fowler, who has been in the district for over thirty years. Mr. Fowler, in thanking the Association for the gifts, said that he very much appreciated the help which had always been readily given to him. Mr. F. R. Barlow proposed the toast of "The Pharmaceutical Society." Mr. E. T. Neathercoat, in response, congratulated the Branch upon its success. It was particularly gratifying to him to witness their recognition of the valuable services which had been rendered by his old friend, Mr. Fowler. The progress of pharmacy during those years had been intimately connected with the development of the Pharmaceutical Society. Mr. H. N. Linstead submitted "The Local Association and Society's Branch," and the chairman responded. Mr. H. Hocken gave the remaining toast of "The Visitors," to which the mayor responded.

Leeds Chemists' Dinner

THE annual dinner jointly arranged by the Leeds and District Branch of the Pharmaceutical Society and the Retail Pharmacists' Union took place on November 14, at the Hotel Metropole, Leeds. Mr. G. C. Crummack presided. A company of nearly 100 included Mr. Herbert Skinner (president of the Pharmaceutical Society), Mr. J. E. French (chairman of the R.P.U.), Mrs. French, Mr. T. Shooter (chairman of the Leeds Branch of the R.P.U.), Mrs. Shooter, Mrs. Crummack, Mr. T. Marns (member of the Council of the Pharmaceutical Society), Mr. T. M. Ridley (Carlisle), Mr. Herbert Gilleghan (vice-chairman of the R.P.U.), Mrs. Gilleghan, Mr. and Mrs. N. N. Armitage, Mr. M. E. Murray, and Mr. A. Flather (West Riding Insurance Committee). Mr. J. Judge, vice-president of the Branch, proposing a joint toast to the two bodies, commented on the appeal for the raising of £5,000 for the Benevolent Fund, and expressed the view that Leeds Branch was not contributing all that it might. Mr. Skinner was the recipient of congratulations and good wishes from all parts of the room when it was announced that it was his sixtieth birthday. Mr. Skinner urged the need for more money, in the form of annual income from subscriptions, for the Benevolent Fund, in order that more help could be given. Speaking of the situation in pharmacy, and possibilities likely to arise out of the sitting of the Departmental Committee on the Pharmacy Acts, Mr. Skinner said that although it was impossible, as yet, to foretell what was going to happen, it was not at all unlikely that all the energies of which they were capable might be called into the stiffest fight in the history of the profession. Mr. J. E. French, who also responded to the toast, said that whatever the findings of the Departmental Committee there was little doubt that chemists were in for a big struggle in more than one direction. Mr. G. C. Crummack proposed a toast to the ladies and visitors in humorous vein. Mr. J. H. Lupton, secretary of the York Pharmaceutical Committee, responded. A programme of music was provided during the evening by the Leeds Lyric Male Quartette, with humorous items by Mr. J. Charles Pearson. In the afternoon a large audience of Leeds and West Riding chemists had listened with interest, at the Hotel Metropole, to a lecture (illustrated by lantern slides) by Mr. T. Marns on the recent tour of Mr. Skinner and himself in America.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held on November 16 in the Society's headquarters, Belfast, the president (Mr. W. J. Hardy) in the chair. There were present also Messrs. Fred Storey (vice-president), James Dundee, W. S. Taylor, R. I. Edwards, S. S. Badger, J. F. Grimes, W. Martin, H. Todd, T. W. McMullan, A. C. McBride, S. Gibson, J. E. Connor, W. E. Wilson, H. McRoberts, Dr. S. E. A. Acheson and Professor Small. Mr. David Kirkpatrick, secretary, was in attendance.

RESIGNATIONS

Mr. Samuel Hogg wrote resigning membership of the Society, and Messrs. R. F. Davis (Londonderry), H. Smyth (Londonderry), H. Nelson (Lisburn), A. E. Poots (Dundalk), and C. Davis (Belfast) wrote resigning associate membership. The resignations were accepted.

EDUCATION COMMITTEE

The following who submitted certificates were granted the Preliminary Certificate of Apprentice to a Pharmaceutical Chemist:—

William Jardine McLeod, 53 Gt. Victoria Street, Belfast; Wilhelmina Dale, 42 Clooney Terrace, Londonderry; Mary Elizabeth MacConville, 10 Downshire Road, Newry; John James McClean, 22 North End, Ballyclare; Elizabeth Winifred Press, 38 Sandhill Gardens, Belfast; Hugh G. Campbell, Mullan House, Finvoy, Ballymoney; Nathaniel Andrew Jermy Anderson, Clounagh, Armagh Road, Portadown; Thomas William Carroll, Doagh, co. Antrim; William Lamont Henry, 41 Causeway Street, Portrush; Gilbert Mains Shaw, Loughmorne Manse, Carrickfergus; John Bunting, 24 Napier Street, Belfast; Sarah Muriel Culbert, 172 North Road, Belfast; Dorothy May Egerton, 19 Palestine Street, Belfast; James Lyle Kingcross, 34 Southport Street, Belfast; William Alexander Norris, 1 Windsor Street, Belfast; Ruth Janie Willson Barry, Alameda, Larne.

Arising out of a query regarding students attending the specified classes before apprenticeship has been started, the following letter was read from the Society's solicitor:—

As instructed by you I have looked into the Regulations for candidates taking the examination in two parts. So far as I can see there is nothing in the Regulation defining the time at which the courses in botany, chemistry, etc., are to be taken. To my mind the combined effect of Regulations 1 (a) on page 75 and 9 (b) on page 8 is that so long as a candidate satisfies the Council that he has obtained the necessary practical training, and has taken the approved course of instruction, there is nothing to say that he must do so during the term of his apprenticeship.

A letter from the secretary of the Academic Council, Queen's University (C. & D., October 27, p. 514) was considered. The secretary was instructed to write to the Academic Council stating that the Society would be prepared to acknowledge the examination provided the Academic Council considered it was equivalent to the Pharmaceutical Preliminary examination, and also asking if they would consider the Matriculation examinations of Trinity College, Dublin, and Magee College, Londonderry, equivalent to the Pharmaceutical Preliminary examination. The minutes were adopted.

The secretary reported that there were 22 candidates under the old syllabus for the December examinations, 19 for Part I (Preliminary Scientific), 12 for Special Board, and none for final Part II examinations.

MEMBER ELECTED

Miss May Ireland, The Sanatorium, Whiteabbey, was elected a member of the Society.

PREMISES

The question of new premises was again raised.

The PRESIDENT said that they should try to get a grant from the Government before launching any scheme.

Mr. McMULLAN suggested a deputation to the Minister of Finance. After further discussion the matter was allowed to rest for the present.

AFFILIATION SCHEME

Professor SMALL mentioned the scheme for the affiliation of scientific societies in Northern Ireland. The Institute of Chemistry was quite keen, and he would like to know the feelings of the Council on the matter. It was proposed to have exchange of lectures, etc. There would be an executive committee of twenty, and each Society could send one delegate to the Society per hundred members, with a limit of five.

The PRESIDENT was in favour of taking part in the movement.

Professor SMALL said that each affiliated body would go on as usual. The proposal was that the Belfast Natural History Society should become the Ulster Natural History Society, and, in addition, run an affiliation of societies from its headquarters.

On the motion of Mr. TODD, seconded by Mr. McBRIDE, the matter was remitted to the Education Committee.

Professor SMALL said he merely wished to test the feeling of the meeting. The proposal was not yet far advanced.

DRUGS SOLD PROMISCUOUSLY

Mr. DUNDEE said that since early closing came in, the small shopkeepers were stocking aspirin and ointments of all descriptions.

The PRESIDENT suggested that they should consider a third schedule for potent drugs.

Mr. GIBSON said that the fact of these people selling aspirin and other things misled the public as to their danger.

Mr. DUNDEE suggested a schedule to include synthetic preparations.

Mr. GIBSON said that the last time a third schedule was put up to the Government it was overloaded. The matter was referred to the Law Committee.

THE SIGNING OF CERTIFICATES

The Law Committee minutes contained the following:—The regulations as amended were discussed and agreed to. Regarding the certificates for those persons taking the final Qualifying examinations under Section 6 (4) of the Act, it was suggested that those certificates should really be signed by the president, or, in his absence, by the vice-president, and counter-signed by the secretary, and that a certificate in parchment should be issued. No definite decision was arrived at.

The PRESIDENT said they had about eight signatures on their certificates, which was absurd.

Mr. STOREY said it was an advantage to the pharmacists to have the names of the examiners on the certificates. Mr. CONNOR took a similar view.

Mr. DUNDEE said the size of the certificate should be reduced.

Mr. McBRIDE said he would be sorry to see it changed.

Mr. TODD said they had given great time to the preparation of the present certificate, and had employed the best artist they could get. He had heard no adverse comments, and did not know there was need for a change.

Mr. WILSON said that the certificate was clothed with a quiet dignity that was a credit to the Society.

It was decided to make no change for the present.

CHANGES IN REGULATIONS

The Council agreed to a new regulation fixing the method in which honorary members of the Society can be elected.

The PRESIDENT said that they had the power at present, but not machinery.

The registrar attended from the Home Office and explained to the Council certain suggested amendments in the regulations, and these were agreed to by the Council.

One of the regulations provided that retiring members of the Council desiring re-election need not be nominated by a member or associate, but would have to give notice to the secretary.

The regulations as amended were adopted on the motion of Mr. DUNDEE, seconded by Mr. BADGER.

The PRESIDENT said that the changes were not vital; they were merely explanatory.

Accounts were passed, and the Council rose.

Photographic Notes

THE SEASON'S BUSINESS

It is some years since dealers were able to record so satisfactory a season as has been the case of the one now past, a result to which several factors contributed. In the first place the weather, particularly in the South of England, was the best experienced since 1921, while the enormous number of cameras given away by cigarette manufacturers has considerably augmented the ranks of those who press the trigger and allow someone else to do the rest. It is noteworthy that in the sales of cameras the disparity between those of the higher- and lower-priced models seems to increase each year. There is some unrest regarding the introduction of the low-priced foreign film, and uncertainty prevails as to the method to be adopted to meet "outside" competition in developing, printing and enlarging.

WINTER PHOTOGRAPHY

AMONG the suggestions which are put forward from time to time for keeping the practice of photography alive during the winter months, few are of real practical value. For this reason, among others, considerable interest attaches to a booklet on "Winter Photography for Every Camera User." This is issued by Johnson & Sons, Manufacturing Chemists, Ltd., Hendon Way, Hendon, London, N.W., and supplies for distribution may be obtained on application. The matters dealt with include flashlight photography, making gaslight prints, colour toning, mounting, enlarging and tinting. Messrs. Johnson are again conducting flashlight competitions, the closing dates of which are respectively January 31 and April 15, 1929. The rules are simple, and the prizes both numerous and substantial, so that the project is worth bringing to the notice of customers.

A REMARKABLE MACHINE

THAT it numbers, develops, rinses, fixes, washes and dries roll film in any standard width or length at an incredible speed and without handling are among the claims made by Automa Appliances, Ltd., Callard House, 74 Regent Street, London, W.1, for an apparatus which they are shortly placing on the market. It is hoped to have a model available for demonstration early in December. The machine, it is stated, simply requires the films placed therein, and the rest is automatic. The whole process requires forty-five minutes, while two operators can deal with 250 films per hour. This by no means exhausts the virtues of the apparatus, but full details are not yet available, nevertheless it will be realised that if these claims are borne out in practice a problem which has engaged the attention of more than one manufacturer for several years will have been solved.

PHOTOGRAPHIC DEALERS' ASSOCIATION

The first meeting of the committees of manufacturers and dealers was held recently, and a brief agreed report was subsequently issued. According to this the meeting "proceeded to discuss in all its aspects the problem of the wise governance of dealer accounts, and each committee agreed to report back to their own council with a view to a further meeting at an early date, which occasion would constitute the first meeting of the Joint Council of Manufacturers and Dealers." Details will perhaps be forthcoming on November 28 and 29, on which dates are to be held respectively meetings of the branch delegates and an extraordinary general of the Photographic Dealers' Association. The venue of the latter is the Lecture Room of the Royal Photographic Society, 35 Russell Square, London, W.C.1, at 2.30 p.m. There is also to be a meeting of the Amateur Photo-finishing Section of the Association. Following the general meeting the annual dinner has been arranged to take place at the Holborn Restaurant.

SUGGESTIONS FOR CHRISTMAS PRESENTS

IN arranging Christmas displays it should not be forgotten that photography offers the would-be giver a choice ranging from a shilling or so to many pounds. In other words, a simple accessory to a costly camera. Many amateur photographers who already own an outfit

would appreciate a set of light filters, while others, less advanced, would welcome a tripod or an exposure meter. A camera, or a complete photographic outfit, is the ideal present for any juvenile not already possessing one, while the new "vanity" cameras will attract the ladies. There is hardly a youngster to whom photography does not appeal, and for those who have a camera a few spools of film, some plates or papers never come amiss. Then also there are a few amateurs whose photographic library is so complete that an addition would be superfluous. There is another side of the Christmas present problem which chemists could push with advantage, namely, enlargements (either framed or as calendars or Christmas cards) of a home portrait, a landscape or marine study. Each has a special appeal, or, alternatively, an album containing a series of holiday snaps could be given.

A BRITISH-MADE AMATEUR CINE CAMERA

A NOTABLE event in connection with amateur cinematography is the placing on the market by Houghton-Butcher (Great Britain), Ltd., 88-89 High Holborn, London, W.C.1, of a British-made amateur cine camera and a projector, to be known as the Ensign Autokinecam and the Ensign Silent Sixteen respectively. Each is arranged to take 16 mm. film, and the retail price of either apparatus is £26 5s. The camera is fitted with an anastigmat lens working at $f/2.6$, and provision is made for working at three speeds, viz., "normal" for ordinary use, "fast" for slow motion effects, and "slow" for trick work and comic scenes. The Autokinecam is constructed of die castings, and all bearings and moving parts are accurately machined. The clock-work motor has ample reserve power, while a footage indicator shows the exact amount of film used at any time. There is also an exposure meter fitted at the side of the camera. The important matters of loading and portability have not been overlooked; the former is quite a simple affair, and for carrying there is provided a strong strap. The projector is capable of taking the equivalent in running time of 1,000 feet of ordinary film. It is of solid construction and has a black crystalline finish. The object of the designers has been to produce a steady picture on the screen, and when the machine is running at its proper speed there is no trace of flicker. The lens in this case works at $f/1.8$. The prices include various accessories. A brochure giving full details of each apparatus may be obtained on application.

"PHOTOGRAPHY AS A BUSINESS"

THIS is the title of a recently-published book by Arthur G. Willis (8½ in. by 5½ in. Pp. 80. 5s. Henry Greenwood & Co., Ltd., London.) Apparently the business side of professional photography is beset with problems as many and as diverse as pharmacy. There are, the author states, three ways in which the profession is at present recruited: From errand boy to operator; paying pupilship; from the ranks of amateur photographers; though each is regarded as unsatisfactory, but, on the other hand, the curriculum advocated appears almost as involved as the pharmaceutical one. Chemists will find the book interesting reading, particularly such chapters as those on training, business system, selling, commercial work and catering for the amateur. Mr. Willis certainly administers a corrective to a number of misconceptions which exist regarding the business side of professional photography. As has often been pointed out in the *C. & D.*, the amount of capital required for starting a business depends on so many factors that it is almost impossible to give any useful indication, and bearing such things in mind it is suggested that while allowing a wide margin on either side according to the premises available £250 to £500 should enable a modest studio to be launched with every prospect of success. The approximate division of turnover of a middle class business may be taken as follows: Salaries and wages 35 per cent.; overhead charges 30 per cent.; materials 20 per cent.; profit 15 per cent. The pros and cons of many debatable questions, for instance, "buying an old business v. starting a new one," are discussed in an unbiased manner and matters likely to be helpful in forming a decision are placed before the reader.

COLOUR PHOTOGRAPHY ON PAPER

It will be recalled that in the *C. & D.*, 1928, I, 622, a method was outlined by which photographs could be produced in natural colours on paper. Considerable advertisement has been given to this process of late in the lay Press, and this has naturally led to inquiries as to when the material would be available for the use of amateurs. The answer is March 1, 1929. By this date Colour Snapshots (1928), Ltd., 60 Conduit Street, London, W.1, hope to be able to supply roll film to any dealer requiring it, though naturally such orders will, as a rule, be placed through a photographic sundries house in the ordinary way. The film will be supplied in two sizes, namely, $3\frac{1}{4}$ in. by $2\frac{1}{4}$ in., and $4\frac{1}{4}$ in. by $2\frac{1}{2}$ in., each spool containing four exposures and retailing at 3s. and 3s. 6d. respectively. The spool fits in the camera in the ordinary way, and no light filter is required, the necessary correction being incorporated in the emulsions. As at present developing, printing and enlarging is, owing to lack of trained staff, beyond the capabilities of most D. and P. houses, the spool after exposure will have to be returned to the manufacturers for processing. The charges for this will be: Developing 1s., post card enlargements 1s. each, extra enlargements, if ordered within one month, 9d. each. The speed of the film is approximately the same as that of ordinary roll film, so that there is no need for alteration in the length of exposure from that which would be ordinarily used, but it is essential that the amount should be as nearly correct as possible otherwise colour balance is affected. It must be remembered that the average person is incapable of appreciating falsification of tone in monochrome, though quite a small deviation in colour printing is easily detected. An exhibition of colour snapshots taken on the company's films is to be held at the Cooling Galleries, 92 New Bond Street, W.1, from December 4 to 15.

MAGNESIUM AND FLASH POWDERS

Now that commercial flash powders and the apparatus for firing them have been so much improved, magnesium in the form of ribbon or powder is not often required by amateurs, though there are occasional demands at this time of year either by those desirous of taking a home portrait or by a purchaser of one of the almost obsolete blow lamps, which are sometimes acquired second-hand. When selling magnesium or flash powder, chemists should utter a word of warning to the customer. If ordinary care is used in firing the flash powder and an open lamp is employed there is little or no danger, but these powders should not be blown through the flame of the old type of lamp. Occasionally an enterprising or economically-minded amateur is desirous of making his own mixture or of drying some which has become damp, both practices are to be deprecated, and a warning should be given as to the risk involved. For mixing, the powders should first be sifted or finely powdered separately and then mixed with a feather. For drying, the safest way is probably to place a small quantity on a previously heated piece of paper. As regards the magnesium ribbon, amateurs sometimes find it difficult to light, an operation which is rendered easier if the end of the ribbon is cut to a sharp point. The amount of ribbon to use depends upon speed of plate or film, distance of flash from object, lens stop, etc. For plates or films of average speed (about 350 H. and D.) the distances, *f*/-numbers, and lengths of ribbon (in inches) may be as follows:—

Distances	Stops			
	F/6.3	F/8	F/11	F/16
1ft.	$\frac{3}{4}$	1	2	4
2ft.	$2\frac{1}{2}$	4	8	16
4ft.	$10\frac{1}{2}$	16	32	64
6ft.	24	36	72	144
8ft.	42	64	128	256
10ft.	70	100	200	400

When using more than a foot of ribbon for an exposure it is advisable to cut up the amount called for, and to braid or twist the strands together so as to quicken the burning, and, of course, the exposure.

Veterinary Notes

ADMINISTERING ANTHELMINTICS TO HORSES

HORSES will take anthelmintic drugs when mixed in a bran mash, according to Roger, Jouveaux and Plateau, in a recent issue of the Bulletin of the Veterinary Academy of France. The authors state that by this means they have given doses of 25 gm. carbon disulphide, 100 gm. carbon tetrachloride, 18 cc. oil of chenopodium, and 80-100 cc. of oil of turpentine. The doses are given twice (morning and evening), and it is generally found that the second feed is eaten more quickly than the first, which sometimes takes two hours. The drugs should be mixed with about four litres of water, then about seven litres of bran is added gradually and with constant stirring. It is recommended that the animals be given a sloppy diet prior to treatment, and that they should be starved for thirty-six hours immediately before receiving the anthelmintic mash. Animals which do not eat the vermifuge will do so if starvation is continued and they are given a saline purgative each day. It is stated that there is no risk over the starvation provided the purgative is given.

FLUKE DISEASE IN IRELAND

THE wet conditions which have prevailed during the summer have been favourable to the water snails in which the fluke develops, and the Northern Ministry of Agriculture has lately issued a warning to farmers regarding the danger to flocks from liver fluke disease. The Ministry states: "An unusually large number of sheep are already affected, and there is every indication that, if immediate treatment is not adopted, heavy mortality will result. Farmers who have not treated their animals should do so without delay, and not wait till the obvious signs of the disease appear. Treatment should be carried out at monthly intervals during the autumn and winter. In addition to treatment, every effort should be made to keep animals off low-lying land, especially if cases of fluke have already occurred there." Copper sulphate may be applied to the land in various ways as an antidote to the snails, while carbon tetrachloride has almost entirely ousted other medicaments in the treatment of animals suffering from the disease. It should not be forgotten, however, that while some sheep show very high tolerance to this drug, with others it is the reverse, so that before treating a whole flock it is suggested that, if the animals are not on free range, the tolerance should be tested by a preliminary administration of the drug to a few animals.

JOHNE'S DISEASE

MEDICINAL treatment of this disease has never been satisfactory. In the early stages the usual diarrhoea remedies, such as chalk and catechu, preferably with a hindering diet, will check this symptom, but sooner or later the disease proves fatal. Intravenous injections of formalin and a mixture containing naphthalin are among the treatments which have been recommended in recent years as cures, but there is little doubt that from the stockowners' point of view early diagnosis of the disease and slaughter of affected cattle is the best way of reducing losses. A diagnostic agent, named Johnin (see *C. & D.*, September 29, p. 402), has proved fairly reliable, but it has lately been discovered that infected animals will give a reaction when inoculated with avian tuberculin. When the existence of Johne's disease in a herd is suspected the cattle are first inoculated with ordinary tuberculin, and if tuberculous they will react to the test. This preliminary test is necessary as the abdominal form of tuberculosis may present symptoms exactly resembling those of Johne's disease. Later the avian tuberculin may be used, and animals affected with Johne's disease will give a definite temperature reaction between the ninth and fifteenth hour after inoculation, which is found to be reliable. Special attention should be paid to the prevention of infection to other animals. Pastures in which infected animals have lived should receive a top dressing of lime and not be grazed by ruminants for six to twelve months.

The Training of Apprentices

THERE was a representative attendance at a meeting of the West Ham and District Pharmaceutical Association, held at the Church Institute, Stratford, E., on November 15, when an address on "The Training of Apprentices" was delivered by Mr. H. B. Mackie, of Brighton Technical College. Mr. W. J. Beardsley presided.

Mr. MACKIE said it was only right that they should recognise that in the past the apprenticeship method had served pharmacy well. Probably no other system could have produced such able men. But conditions had altered considerably in the last twenty years, and it behoved all interested in pharmacy to inquire whether the old ways were the best fitted to meet the new needs. He divided those engaged in pharmacy into five groups:—

(1) The group of men and women in general practice or retail pharmacy, although he disliked the latter term. This would be, in any time that could be foreseen, the largest group. (2) The smaller group engaged in public pharmacy in hospitals, poor-law institutions, prisons and the Navy—leaving out the Army. This group was increasing in numbers and importance. (3) The group engaged in the preparation of galenicals and chemicals on a large scale, the wholesale group. (4) The analytical group, small but immensely important. (5) The teaching group, of no importance in this connection. (Laughter.)

"I take it for granted," said Mr. Mackie, "that you all agree it is desirable that everyone engaged in pharmacy with the necessary educational attainments should be within the Pharmaceutical Society, subject to its discipline, contributing to its status and sharing its privileges." Was a retail apprenticeship really necessary or even desirable to all these groups? A young person passed the Matriculation examination, entered college, and after a three-years' course acquired the Bachelor of Pharmacy degree. He intended to enter a wholesale laboratory. There was a certain probationary period when, despite his previous college training, his value was not great; he must serve something in the nature of apprenticeship. He was a man of twenty-one. Now it was said that, notwithstanding the fact that the man had no intention of ever entering retail pharmacy, he must be compelled to serve an apprenticeship in that branch of pharmacy before he could register, in addition to the period of probation that must necessarily occur when first entering a laboratory and his three years at college. Such a man would not do it. "What will happen, nay, what is happening," the speaker continued, "is that a group of men, able and intelligent above the average, is growing up inside pharmacy, but outside the Pharmaceutical Society. Their number may be small, but will increase, and, being debarred from our Society, they will form an association of their own which will link up with another body."

What was the remedy? asked Mr. Mackie. In his opinion, candidates for the Major qualification should be permitted to acquire the two thousand hours necessary for registration in (a) a recognised hospital, (b) a recognised wholesale laboratory, (c) a recognised analytical laboratory. He thought they should insist on limiting the concession to recognised laboratories, and to those candidates who spent three years at a recognised college. In that simple way they would remove the temptation from their wholesale friends to fill their works with apprentices. It also provided a test of the employers' sincerity. If it were really apprentices they wanted, these had better have a good scientific education. He saw no objection to permitting a candidate to take his examination before his apprenticeship, registration to follow after completing the two thousand hours. He was speaking, of course, only of the Ph.C. examination. With regard to retail pharmacy, there were many different types of pharmacies included in the term. They varied from the very professional establishments to the type where gramophones seemed to be the most important stock. They also varied from town to town. Even so, he was convinced that for those who intended to go into general practice a retail apprenticeship was absolutely necessary. Further, a really good apprenticeship was the very best training a youth could have, but any apprenticeship was better than none. It was well, however, to understand

clearly what apprenticeship could do for the modern youth. He was here concerned with the average pharmacy. It could teach a youth orderliness and method, carefulness and politeness, and those attributes that could only be inculcated by repeated precept and daily example. These were priceless gifts for the man who would have to face the public, and valuable, too, in giving the youth that something which he would call a sense of reality which the academic person invariably lacked. The boy would make some acquaintance with dispensing medicines. He would have the opportunity of seeing the provisions of the Pharmacy Acts carried out, and early discover that the Dangerous Drugs Acts were a veritable trap for the unwary. But there were some things the average apprenticeship could not do. It could not teach the apprentice the elements of galenical manufacture.

Mr. Mackie then suggested a scheme for discussion. First they must get the right type of apprentice. Hence the Preliminary examination must be put on a respectable footing. The school certificate was the lowest that could be accepted. "It is our contemptible Preliminary examination that is our worst trouble," he declared. "This is the prime cause of the appalling list of failures in our later examinations, thus leading to unqualified store proprietorship and the consequent degradation of our calling." Having passed the Preliminary there were two courses open:—(a) The student might remain for a further year at school and pass the Preliminary Scientific examination, or (b) he might enter directly on his apprenticeship. Discussing how far apprenticeship could be regulated, Mr. Mackie said he had heard men declare that only certain recognised pharmacies should be permitted to take apprentices, and these pharmacies should be open to inspection in the same manner as the recognised schools. They might come to that, but he did not believe the time was ripe for that heroic step. He suggested that the branch or association appoint an education committee and that they be instructed to formulate a scheme. Only the local people knew the local difficulties. The first business of this committee would be to ask the headmasters of secondary and grammar schools to meet them and discuss the situation, outlining what pharmacy had to offer and what it expected of its entrants. Pharmacists requiring apprentices would notify the secretary, who would be in touch with headmasters and would thus be able in a quiet and serviceable way to advise boys and their parents. In general, a three years' apprenticeship was desirable, although the youth who had passed Part I might be allowed to complete his in two years. During the first two years he should be allowed to attend college for two half-days a week. He would have to supplement this by attending one or two evenings a week. Mr. Mackie was satisfied that if some such scheme were adopted, they would build up a profession in which it would be an honour and a privilege to be accounted a member. (Applause.)

Discussion

The CHAIRMAN said he was sure Mr. Mackie had never had to deal with the staff of a wholesale house. If he had, he would know that it was controlled by its trade union, which would only allow one junior to every eight employees. If the union found the rule was being broken they would immediately call their members out on strike. He (the speaker) had yet to learn whether an apprentice could be efficiently trained in the shop. He recommended that they should consider Mr. Mackie's proposal and bring up a resolution that such a committee be formed to get in touch with education authorities in the district.

Others who took part in the discussion were Messrs. SOFER, HAYLOR (president of the local junior section), THOMPSON and REED.

Replying to the points raised, Mr. MACKIE said he thought a certain amount of Latin was necessary, though no deep knowledge was required nowadays. The length of the apprenticeship would vary according to circumstances, but it must be remembered that with the raising of the standard of the Preliminary examination youths would be entering at a later age. In his opinion apprenticeship should not be terminated before the age of twenty. A vote of thanks to Mr. Mackie was carried.

A Canadian "Pharmacy Week"

THE retail druggists of Ottawa, Ontario, and Hull (Quebec), took advantage of the opportunity presented in "Pharmacy Week" to conduct a special local campaign, the purpose of which was to impress upon the people at large the position which the retail druggist holds in the community. Features of the special campaign consisted of a striking full-page advertisement in the "Ottawa Journal" and special window displays embodied the theme of the movement. Particular attention was drawn to the rôle which the druggist fills as a neighbourhood asset, and reasons were given as to why the corner druggist should be patronised. In one respect, the co-operative "stunt" was the answer to the departmental store in the down-town district, which closes its doors at 6 p.m. and is not available for emergency or other purposes until next morning—if at all. On this point the advertisement read: "Long after the business houses are closed, your druggist serves you." This line was also used in a number of the chemists' windows. The special drive was carried out under the direct auspices of the Ottawa Retail Druggists' Association, which, it was announced, comprises all members of the retail drug trade of Ottawa, Hull and all towns in the surrounding district.

Points brought out in the campaign referred to the careful and immediate filling of important prescriptions, the rendering of first-aid assistance in traffic and household accidents, the personal service given by the druggist during the evening and even during the night on emergency calls, the contribution of the druggist to civic, educational and religious needs, the function of a druggist as a merchant and the advisability of practical support for the druggist on the part of neighbourhood residents. "Know your druggist better—he's your

doctor's right-hand man," was the concluding argument of the impressive display.

Under the heading of "Must be a Merchant, too," the following paragraph appeared in the newspaper display:

"The principal function of pharmacists is to compound prescriptions, which requires long professional training. Yet, there isn't enough prescription business in most neighbourhoods to support an exclusively prescription store. Therefore, the druggist must sell many sundries—he must be a merchant, too. Only by doing this can he make a living and maintain his pharmacy in equipment and efficiency, so that it may best serve the needs of the community and its physicians when serious sickness comes."

Regarding the humanitarian service rendered by the druggist, the following statement appeared:

"There is serious sickness at home, and you hurry with the prescription the doctor has given you to your local prescription pharmacy. The pharmacist immediately senses the seriousness of the case from the medicine the doctor has ordered. Every minute that treatment is delayed counts against the patient.

"Perhaps the prescription calls for a rare drug or a new remedy. Yes, the pharmacist assures himself he has every ingredient—he had prepared for emergencies. Coolly, deftly, accurately, he compounds the prescription and carefully checks his work. This is only one among hundreds of instances that emphasises the value of the druggist to a community or neighbourhood.

"Practically every day you read in your newspaper of someone injured by an automobile who was taken into a nearby drug store and first-aid assistance rendered. Many of these cases, for lack of this timely assistance, would have proven fatal. Daily, people in all walks of life come to the druggist for assistance. Sometimes it's a cinder in an eye; sometimes a headache. And every time the pharmacist cheerfully extends his assistance or advice."

The cost of this special drive is being paid for out of the funds of the Ottawa Association, an addition being made to the regular dues for the purpose. All members cheerfully supported the move.



INTERIOR OF MORGAN BROTHERS' PREMISES, BOW LANE, LONDON, E.C., ABOUT THE YEAR 1860. A 15-INCH SPATULA PURCHASED FROM MESSRS. MORGAN BROTHERS SIXTY YEARS AGO, AND USED EVER SINCE, HAS BEEN PRESENTED BY PROCTOR'S PINELYPTUS DEPOT, NEWCASTLE-UPON-TYNE.

Proper and Sufficient Medicine

DURING the last few months a controversy has arisen concerning the supply of certain preparations to insured persons, largely, perhaps, as the result of action taken by Insurance Committees in notifying chemists under contract with them that certain articles would be disallowed. The first Insurance Act of 1911 secured for insured persons, among other benefits, proper and sufficient medicines. The present terms of service for Insurance practitioners include the following clause:—"A practitioner is required to order . . . such drugs . . . as are requisite for the treatment of any patient." Memorandum 199 I.C., issued by the Insurance Commissioners, states:—

(1) Insured persons are entitled as part of their medical benefit to proper and sufficient drugs, medicines and appliances but not to any articles or preparations that do not fall within that description. Hence foods, toilet preparations, etc., cannot be prescribed as such. . . .

(2) A practitioner is not entitled to prescribe at the cost of the Insurance funds medicines which exceed in cost what is proper and sufficient for his patient's treatment.

In response to many inquiries, the Ministry of Health has continually repeated that it is for the Insurance Committee in each area to decide what shall or shall not be supplied to insured persons at the cost of the drug fund (or the chemists' fund, as it is now called). The memorandum just referred to states that:—

. . . The prohibition of specific articles . . . involves the exercise of a therapeutic judgment upon matters upon which the Insurance Committee are not in a position to decide. . . . Any circular of this nature . . . should be issued with the assent of the Insurance Committee by the Panel Committee acting both in the capacity of expert advisers to their constituents as to methods of prescribing and as warning them of the policy in future to be adopted. . . . Such a circular might be issued by Panel Committees to doctors on the panel with considerable advantage in most areas, and it is suggested that the Insurance Committee should consult with the Panel Committee on the subject. The specific preparations or compounds as to which it is desired to caution practitioners will, of course, vary with the experience of the area and the views of the Panel Committee.

There are certain preparations which may be advertised mainly as foods, but concerning which it may be claimed that to some extent they are medicinal in character. The number of these preparations has increased very largely of late years, probably because of the discovery and adoption of new methods of treatment; and it is in connection with the consideration of these cases that differences of opinion arise. The principle, however, appears to be established that these matters should be decided by a properly constituted body representative of the best medical opinion. The chief fault in the present procedure is that the decision of these questions is made locally. It does not appear reasonable to assume that the requirements of insured persons will "vary with the experience of the area and the views of the Panel Committee." It is quite conceivable that when such a committee goes out of office the new committee may hold views widely differing from those of its predecessor as to what preparations are or are not necessary for the treatment of insured persons. There is now a general consensus of opinion that the duty of deciding these matters should devolve upon a national committee and not a local body, so that insured persons in all parts of the country should receive equal consideration and treatment.

Meanwhile, it is the Insurance Committee which, in each area, actually disburses the payments from the chemists' funds. Every such committee, therefore, is expected to exercise the greatest care to ensure that only those articles which are properly chargeable to the fund shall be paid for out of the fund. It is not sufficient for Insurance Committees to let this matter go by default, and go on paying for doubtful articles merely because they have not faced the question of deciding what shall be allowed. Panel Committees, which advise the Insurance Committees in these matters, are pledged through the Insurance Acts Committee of the British Medical Association to take all legitimate steps to check

unnecessary spending in the matter of drugs; and they, too, must have regard to the limited character of the chemists' fund. Neither chemists nor their representatives need cry out because it is affirmed by other interested parties that the rights of insured persons are being encroached upon. Chemists do not need to be reminded that the approved societies are quite capable of looking after the interests of their members, and that the British Medical Association may be trusted to ensure that the rights of Insurance practitioners to treat their patients properly under the Act are not in any way restricted. Yet protests by any of these bodies do not appear to have followed upon the action taken by various Insurance Committees in disallowing certain preparations. In other bodies of persons decide that, by the exclusion of certain articles from the list of those which chemists are called upon to supply, the fund shall be conserved, the chemists should not be led astray by parties who may have other ends to gain, who may feel aggrieved because certain preparations in which they are interested have been prohibited, and who, under the guise of protecting insured persons, are in effect selfishly adding to the number of claims. The true remedy, without question, lies in providing more money to cover the ever-increasing cost of necessary medicines and appliances. Until that ideal condition of things is brought about, every effort must be made to limit the payments from the fund rigidly to the benefits conferred upon insured persons by the Insurance Acts. Only in this way, while present conditions prevail, will chemists—who have always been unfortunate in these matters—be enabled to get the most out of what is at best a very poor bargain.—CERUM (16/11).

Making Money before Christmas

FOR a few weeks before Christmas nearly everybody is in a spending mood, and the opportunities which present themselves at this time of the year for increased trade in this direction are greater than at any other. There are many things which the up-to-date chemist may handle which are suitable as presents. The multiple stores are fully alive to the advantages to be derived from catering for this class of trade; but there is not the slightest reason why the smaller business, and even the one-man-shop, should not get a proportionate amount. The smaller business does a steady trade throughout the year in ordinary commodities, and has a regular *clientèle* for these. The chemist who is in business on his own account is known by his customers. To whom, then, would they sooner go than to the man they know and trust, to buy presents for their friends, provided he has a carefully selected stock?

It may be argued that this is only a seasonal trade. This is true up to a point; but there are many things in a chemist's stock for which, although specially bought for the Christmas trade, there should be a demand right throughout the year. This is why I would emphasise the necessity that it should be a carefully selected stock, having in view, all the time, the fact that if any of the goods do not sell at Christmas they will still be good stock. One such line of goods, obviously, is the camera. There are many things in the same category, among which may be mentioned toilet accessories and scents, in attractive packing; and there is no good reason why any chemist who lays himself out for the Christmas trade should be left with unsaleable stock. The man who rises to the occasion will reap the extra profit which may be his.—JOHN CROYDON.

IODINE DEFICIENCY IN ANIMALS.—A brochure entitled "Iodine for Livestock," compiled by Mr. Frank Ewart Corrie, B.Sc., and published by De Gruy & Co., Ltd., 45 Mitchell Street, London, E.C.1, gives an excellent *résumé* of the research work carried out in recent years on the importance of feeding iodine to animals. A list is given of manufacturers of mineral supplements and concentrated foods who have informed the author that they incorporate iodine in their products.

Trade Notes

CHRISTMAS GIFT LINES are advertised in this issue by William Edwards & Sons, druggists' sundriesmen, 14-18 Nile Street, City Road, London, N.1.

CINEMA SPRAY SOLUTIONS.—Joseph Brooks & Co., Ltd., 42 Shudehill, Manchester, will send samples and prices of cinema spray solutions on application.

COUGH PASTILLES.—Ernest Jackson & Co., Ltd., Crediton, make cough pastilles in the shape of pyramids from a formula which is both well-tried and popular.

ENO SPORTS CALENDAR.—J. C. Eno, Ltd., P.O. Box 671, London, E.C.4, ask chemists to make application for the Eno sports calendar not later than December 10.

BEECHAMS PILLS, LTD., Chester Road, Manchester, are offering a bonus on Veno's Lightning Cough Cure and Beecham's Powders purchased before December 5.

MALTINE PREPARATIONS are obtainable from Glaxo House, 56 Osnaburgh Street, London, N.W.1. Retailers may obtain supplies through the usual wholesale channels.

TINCTURE OF IODINE.—Clayton (Surgical and First Aid), Ltd., 37 Lewisham Road, London, S.E.13, are offering tr. iodi B.P., and tr. iodi decol. B.P.C., packed ready for resale.

SAKABE & Co., No. 4 Naniwacho, Kitaku, Osaka, Japan, who are manufacturers and exporters of toilet brushes, invite inquiries regarding such articles and in regard to handles and bristles.

BRANDING CATTLE.—Battle, Hayward & Bower, Victoria Chemical Works, Lincoln, supply paint sticks in a variety of colours for branding stock. A sample and trade prices will be forwarded on application.

BIOLOGICAL SUPPLIES.—The H. K. Mulford Co., Ltd., Regent Arcade House, 252 Regent Street, London, W.1, announce that supplies of their biological products are available at any time of the day or night.

RADIUM WATER.—Radium Springs, Ltd., Adelaide House, London, E.C.4, give some particulars on another page regarding a water rich in radium which has been successfully employed in the treatment of a number of ailments.

INTERNATIONAL PROPRIETARIES Co., 55 Holborn Viaduct, London, E.C.1, have been appointed the sole British representatives for McKesson & Robbins, New York, proprietors of Calox tooth powder and other well-known products.

GLASSWARE.—Jules Lang & Son, Charlton Works, Charlton Place, Islington, London, N.1, are offering a number of clearance lines, including bottles, ear syringes and douche linings, particulars of which are given on another page.

THE BRITISH AGENT for the products of Carlo Erba, chemical manufacturer, Milan, is Dr. F. M. Scaglione, 49 Knightsbridge, London, S.W.1. Supplies can also be obtained from Rouse & Co., Ltd., 12 Wigmore Street, W.1. Among the preparations which are to be brought to the notice of the medical profession are Odopeptol and Yodantraco.

THE PERONIA Co., Stoney Street, Nottingham, point out that if a judicious assortment of this season's novelties is incorporated in Christmas displays, it will help materially in selling goods that may have been left over from last year. A suggested selection of suitable single articles of the firm's Christmas display lines is given in their advertisement.

LIVER EXTRACT.—As the large amounts of fresh liver required for the treatment of pernicious anæmia are apt to become nauseating, there is a demand for a concentrated extract. Parke, Davis & Co., Beak Street, London, W.1, issue a liver extract in a highly concentrated form, packed in airtight vials containing the equivalent of 100 gm. of fresh liver and supplied in cartons containing two dozen vials. The product is readily soluble and may be taken dissolved in milk, soup or water. Alternatively it may be sprinkled over food in the same way as a condiment, the salty taste favouring this method of administration.

Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(From "The Trade-marks Journal," November 7, 1928.)

"HARLASTIC"; for chemicals (1) and (2). By Agnes Harland-Peck, Phipps Bridge, Merton, London, S.W.19. 494,380/381. (Associated.)

"Mox"; for thermite (1). By Merx, Ltd., 36 St. Andrew's Hill, London, E.C.4. 495,045.

"SURPRISE"; for water-softening preparations (1). By Wm. Edge & Sons, Ltd., 50 Raphael Street, Bolton. 495,341.

"CALUREA"; for all goods (2). By I. G. Farbenindustrie A.G., Mainzer Landstrasse 23, Frankfurt-on-Main, Germany. 491,120.

"FERTOTERRE"; for fertilisers (2). By The Basic Slag & Phosphate Companies, Ltd., 67 Queen Victoria Street, London, E.C.4. 495,660.

"FRIAR BRAND" with a device of head of friar on seal (seal device disclaimed); for pharmaceutical preparations (3). By Dundas Simpson & Co., 1 Crutched Friars, London, E.C.5. 488,616.

"NERVETONINE" on square label with facsimile signature "M. F. Thompson," and directions for use; for medicines for nerve complaints (3). By D. McCutcheon, 14 West Nile Street, Glasgow. B488,874.

"EVIUNIS," also "EVIUNIS" under picture of girl holding bowl, enclosed in octagonal frame; for medicinal chemicals (3) and for food substances (42). By Cristallo A.G., Thuis, Switzerland. 489,140/141; 492,112/113. (Associated.)

Device of bear using pestle and mortar, on shield; for medicinal chemicals (3). By Barnangens Tekniska Fabrikers Aktiebolag, Bondegatan 61-63, Stockholm, Sweden. 491,150. (Associated.)

"DR. G.'S RHEUMATICO CURE" on label device, including facsimile signature "T. G. Hughes" ("Dr. G.'s" disclaimed); for medicinal tablets for rheumatism, etc. (3). By T. G. Hughes, The Pharmacy, High Street, Deiniolen, N. Wales. 492,553.

"YESTALT"; for medicinal chemicals (3) and for food substances (42). By The English Grains Co., Ltd., Shobnall Road, Burton-on-Trent. 493,174/175. (Associated.)

"SUN-I-TONE"; for medicinal tablets (3). By W. H. Parkin, 51 Bristol Road, Birmingham. 493,550.

"NOCORN, KING OF CORN CURES" on circular label with facsimile signature "W. Carter," etc.; for a corn remedy (3). By W. Carter, 61 Darwin Street, London, S.E.17. B494,264.

"JELOCOD," "JELOPAR" and "JELOCAST"; for medicated preparations (3). By Research Products, Ltd., 12-13 Henrietta Street, Strand, London, W.C.2. 495,010/012/013. (Associated.)

"KOLLOPIN"; for medicinal chemicals (3). By Aktieselskapet Apotek Kernes Laboratorium for Special Præparater. Abbediengen, Sköjen, near Oslo, Norway. 495,235.

"SAN-PULMIN"; for medicinal chemicals (3). By F. Johnson, 8 Park Row, Nottingham. 495,323.

"NEO KRUSCHEN SALZ" ("Salz" will be varied by the substitution of other names); for medicinal chemicals (3). By E. Griffiths Hughes, Ltd., 68 Deansgate Arcade, Manchester. 495,701. (Associated.)

"NASUPAT"; for devices for the protection of the nose, throat and lungs against dust and infection (11). By E. A. Boldt, Strehlenstrasse 73, Dresden, Germany. 492,698.

"NORVIC" and "NOR"; for bandages and binders (11). By Grout & Co., Ltd., St. Nicholas Road, Great Yarmouth. 494,244/767. (Associated.)

"FOURSOME"; for metal cases for perfumery products (13). By Ruby T. Brewster, 145 Edgemont Road, Scarsdale, New York, U.S.A. 491,423. (Associated.)

"BO-VITE"; for a vegetable paste for food (42). By Cereal Foods, Ltd., 16 Barrack Street, Sydney, New South Wales. 492,175.

"BABEX" and "ALASHL"; for food substances (42). By A. Wander, Ltd., 184 Queen's Gate, London, S.W.7. 493,192; 494,546. (Associated.)

"VINDAE"; for essences, etc. (42). By Confectionery Ingredients & Essences, Ltd., 61 Wigginton Road, York. 494,077.

"ROTEX"; for preparations for removing stains from fabrics (47). By C. H. Parsons, Kilwardby Street, Ashby-de-la-Zouch. 495,815.

"LA QUESTION"; for perfumery, etc. (43). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 495,044.

Births

Notices for insertion in this column must be properly authenticated.

ROCK.—At The Pavement Pharmacy, Westcliff-on-Sea, on November 15, Gertrude, the wife of Norman C. Rock, B.Sc., M.P.S., of a son.

Marriages

BLACK—TWEED.—At Raloo Presbyterian Church, on October 18, Robert James Black, R.D., Belfast, to Sarah Rosetta Tweed.

RUTHERFORD—JONES.—At the Parish Church, Clapham, London, S.W., on October 20, Sydney W. Rutherford, chemist and druggist, Newcastle-on-Tyne, to Elsie Jones.

Deaths

BLAGDEN.—At his residence at Petersfield, Hampshire, on November 17, Mr. William George Blagden, aged eighty-nine. The death of Mr. Blagden will be read with much regret by his many friends in the gas and chemical industries. Born at Warmsworth, Yorkshire, in 1839, he was educated at University College, London. Later he went to Liège University and then to Freiburg University, securing mining engineering degrees. His commercial activities commenced in 1862, and he was probably the first maker in England of benzol, at the time he owned the works of Carless and Blagden (now Carless, Capel & Leonard). In 1870 he commenced business in the City of London as W. G. Blagden & Co., entering into partnership in 1872 under the title of Blagden & Angus. Upon Mr. Angus's retirement in 1883, he was joined by his son, Mr. Victor Blagden, the present chairman of Victor Blagden & Co., Ltd. The last few years of Mr. W. G. Blagden's commercial life were spent with the Gas, Light & Coke Co., Ltd. Besides his knowledge of chemical and engineering matters he was a remarkable linguist, speaking four or five languages fluently. The passing of Mr. Blagden breaks still another of the few remaining links with the pioneer days of the gas and chemical industries, in which he was an outstanding and highly respected personality.

BURNETT.—At Perth, on November 7, Mr. William Burnett, chemist and druggist, late of Gatooma, Rhodesia, aged fifty-seven.

CALHAEM.—At Wanstead, on October 20, Mr. Richard Edmund Kean Calhaem, chemist and druggist, aged sixty-eight.

COLEMAN.—At Taunton, on October 10, Mr. Edmund Francis Coleman, chemist and druggist, aged sixty-five.

COLLEDGE.—At Brisbane, Australia, recently, Mr. William Robert Colledge, chemist and druggist, aged eighty-six.

COPE.—At Leek, on November 7, Mr. Gilbert Cope, chemist and druggist, Cawdry Buildings, Fountain Street, aged fifty.

FELL.—At Morecambe, on October 28, Mr. John James Fell, Ph.C., aged seventy-three.

FLETCHER.—At Lanark House, 41 Fairfield Road, Old Charlton, London, S.E.7, on November 20, Mr. Francis Bagshaw Fletcher, chemist and druggist, formerly of 9 The Square, East Retford, aged eighty-six.

GRAY.—On November 19, Isabella Henderson Winton, wife of Mr. John Gray, chemist and druggist (Davidson & Gray, chemists, 123A Nethergate, Dundee).

LOCHHEAD.—At Tunbridge Wells, on October 29, Mr. Gavin Witherspoon Lochhead, chemist and druggist, aged forty-seven.

REID.—At 4 Brodie Park Avenue, Paisley, on November 18, suddenly, Mr. Robert Cochrane Reid, chemist and druggist, 61 Neilston Road. Mr. Reid qualified in 1915.

ROBERTSON.—At Cupar, on November 15, ex-Bailie William George Robertson, Ph.C., aged sixty-one.

STAMBOIS.—The funeral of the late Mr. Louis Julius Stambois, whose death was recorded in our issue of November 10 (p. 575), took place at Leeds on November 11. In addition to the family mourners, there were present to pay the last tribute a great number of friends, including the following:—Mr. W. Smullen, Dublin; Mr. M. L. Benjamin, Glasgow; Mr. Eaton (Gillette Safety Razor, Ltd.), London; Mr. Thomas (Auto-Strop Safety Razor, Ltd.), London; Mr. Nevison (Souplex, Ltd.), Morecambe; Mr. F. W. Ward (F. W. Ward & Co.), Sheffield; Mr. D. Levy, Liverpool; Mr. E. A. Anderson, Leeds; Mr. F. Smith, Leeds; Mr. Rosenberg, Liverpool; Mr. J. Barnet (Jules Lang & Co.), London; Mr. M. Lander, Leeds; Mr. H. Adlestone, Manchester; Mr. M. Goldstone, Manchester; Mr. N. Wilson, Middlesbrough; Mr. L. Greenhill, Manchester. It was the wish of Mr. Stambois that he should be remembered to all his friends who wrote to and inquired about him while in Vichy and Nice.

Personalities

MR. J. J. BOOTH (Booth & Co., manufacturing chemists, Idle) has been elected president of the Bradford Musical Union.

MR. C. T. COOPER, chemist and druggist, Bognor, has been elected a member of the Committee of the local chamber of commerce.

ALDERMAN A. W. COLES (A. W. Coles, Ltd., chemists) has been elected Mayor of Okehampton. Alderman Coles has been a member of the Corporation for ten years.

MR. L. MARKS, chemist and druggist, Bradford, is the director of an excellent orchestra of thirty players, which is giving valuable service in connection with the Bradford Dramatic League.

MR. W. H. HODGE, chemist and druggist, 68 Chapel Ash, Wolverhampton, was installed W.M. at the jubilee celebration of the Machen Lodge, 1782, at Birmingham on November 15.

MR. G. DUNCAN BOWIE, M.P.S., has been elected president of the North London Scottish Association. Mr. Bowie was one of the founders of this body and its first president in 1912.

MR. A. W. DANIEL, M.P.S., Forest Gate, a member of the London Chemists' Golfing Society, has joined the select band of golfers who have twice accomplished the feat of "holing in one." It was at the first hole at Wanstead, on November 20, that Mr. Daniel again holed his tee shot.

At a special united service held at Claverdon Parish Church, Warwickshire, on the evening of Armistice Day, the preacher was Mr. T. R. Perkins, pharmacist, Henley-in-Arden, who has been for many years a local preacher in the Wesleyan Methodist Church. Five weeks previously Mr. Perkins occupied another Anglican pulpit in the district on the occasion of the harvest festival.

MR. R. BAKER, who was manager for Mr. R. J. Farmer, chemist and druggist, Tutbury and Hatton, Staffs, and left some time ago to take up duties in Nairobi, has had sole charge of developing and printing all the photographs taken in connection with the Prince of Wales' African tour. Mr. Baker also was present at the ball and garden party at which the Prince of Wales was the guest of honour.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated

S/1911. Frangulae (for reducing)	B/1411. Liverol
L/1314. Graphite for use in hosiery manufacture	G/1511. Ralmina soap
B/1411. Hermit foot supports	H/1411. Thymocarboline
E/2011. Iron products	W/1411. Tooth brushing machine (plunger movement with finger and thumb)
G/1511. Ilksa shampoos	E/1411. Vividine shaving cream
R/711. Lactopepsine biscuits	L/1411. Wavacurl (London dépôt)
L/1411. Liverettes	

Observations and Reflections

By Xrayser III

International Agreement

is a very fine thing for many purposes, but we seem to be unduly hampered in the conduct of our business by the forcing upon this country of unnecessary prohibition methods. The American attempt to abolish heroin is ineffective in the United States for the same reasons that prohibition of the sale of alcoholic drinks have proved a failure there. As you point out, however, Government control means much more here than in America, and such prohibition of the use of heroin as our Government may decide upon will almost certainly be maintained, even to the public disadvantage. What is going to happen now is that those who have derived benefit from small doses of heroin in suitable preparations, will be driven back to the use of morphine preparations, with less beneficial results. Our only hope of being able to provide a much-needed remedy in very small doses, without a fresh prescription being presented by the sufferer every time, is that there should be a concession of two or three exempted preparations, as in the case of morphine. Meanwhile, I trust that your luminous article on the subject (*C. & D.*, November 17, p. 604) may be brought to the attention of the powers that be, and of medical members of Parliament.

Force of Habit

is one thing to be avoided if the business of a chemist and druggist is not to be conducted at a loss, partial or complete as the case may be. One very bad habit in which some of us indulge is to omit to observe how prices fluctuate, particularly when costs tend in an upward direction, and also tend to remain on the higher scale. A striking illustration of this is afforded by the out-of-date pricing of the formula to which one of your correspondents directed attention recently (*C. & D.*, November 10, p. 591), and the admission last week by the original dispenser (p. 617), that the prescription had never been repriced since pre-war days. There can be no question that it is essential for the proper conduct of our business that we should, from time to time, revise all current retail prices. Once a quarter should not be too often for this to be done by the aid of the *C. & D.* Retail and Dispensing Price List, and there may be occasions when serious advances in prices, as notified for National Health Insurance purposes, should be taken into account at once.

Panel Doctors

are among the critics of the British Medical Association list of medicaments, which it is suggested should not be regarded as medicines for the purpose of the National Health Insurance Acts (*C. & D.*, November 17, p. 597), and it is just as well this should be so, because of the extraordinary method of classification adopted in preparing the list and the possibilities of its *omnium gatherum* concluding clause. Regarding the matter from the point of view of insured persons, the pressing upon those concerned of such a list is nothing short of an attempt to break the bargain made with them by the State. As for the chemists' interests in the matter, it will be unfortunate in the extreme for us if doctors are ever officially precluded from ordering the most recent products of clinical research for the use of their patients who are insured persons. What is being attempted in certain quarters would appear to be limitation to such medicaments as sixpenny doctors find is all they can afford to supply; and one shudders to think of a national health insurance system based on the administration of Epsom salts, burnt sugar and water. This is not to say that extravagantly disposed prescribers should be permitted to indulge all their fancies unchecked and to order proprietary preparations for which there are efficient non-proprietary substitutes. And, above all, it is imperative that steps should be taken to provide sufficient money to ensure payment in full of chemists' accounts for everything supplied in good faith for insured persons and for all service rendered.

Mr. C. J. S. Thompson,

in his interesting lecture on the curious *materia medica* of the seventeenth century, mentioned the name of Lovell, whose book on the animal *materia medica* was written and published in that century. Robert Lovell's "Panzologicomineralogia" is the most complete summary in the English language of the medical history of animals and minerals. The title-page is so truly descriptive of its contents that I shall venture to give it in full; the title is as above; it then proceeds: "Or a Compleat HISTORY of Animals and Minerals, containing the Summe of all Authors, both Ancient and Modern, GALENICALL AND CHYMICALL, touching Animals, viz., Beasts, Birds, Fishes, Serpents, Insects and Man, as to their Place, Meat, Name, Temperature, Vertues, Use in Meat and Medicine, Description, Kinds, Generation, Sympathie, Antipathie, Diseases, Cures, Hurts, and Remedies, etc.: With the Anatomy of MAN, his Diseases, with their Definitions, Causes, Signes, Cures, Remedies: and use of the *London Dispensatory*, with the Doses and Formes of all kind of Remedies: As also a History of MINERALS, viz., Earths, Mettals, Semi-mettals, their Naturall and Artificiall excrements, Salts, Sulphurs and Stones, with their Place, Matter, Names, Kinds, Temperature, Vertues, Use, Choice, Dose, Danger and Antidotes: Also an Introduction to Zoography and Mineralogy; Index of Latine Names with their English Names; Universall Index of the Use and Vertues, by Robert Lovell, St. C.C. Oxon. Oxford, 1661."

Robert Lovell,

Student of Christ Church, Oxford, possessed a faculty for compilation of such a high order as would arouse the envy of the most ardent encyclopædist; and his love for words—long words and curious words—words rare and words novel—could not be excelled by that of the most devoted lexicographer. To elucidate the meanings of Lovell's strange words it is necessary to make constant references to Greek and Latin dictionaries. It is perhaps a pity that some of his coinages have not become current. Pharmacodynamics has been issued from the modern mint; but Lovell's *Dynamilogia Pharmaceutica*, which successfully embraces the therapeutical and the pharmaceutical aspects of the *materia medica*, is perhaps a little more precise, although it does wear a slightly pedantic air. The most striking collection of his verbal eccentricities is to be found in his companion volume on herbs—"Panbotanologia."

The Industry

of this Oxford student, whose predilection for Greek is so apparent, may be estimated quite easily. In that section of the book treating of animals there are references to upwards of 300 authorities, and in the section treating of minerals nearly 200. The individual monographs consist practically entirely of such references. His authorities extend from Hippocrates down to Gesner and Schröder. One wonders what system he used to assemble the enormous mass of material and by what means he distributed it under its different headings. There are five pages occupied with the medicines which may be obtained from the human body and its excrements; 162 are used for epitomising human anatomy and human ailments and their established remedies. Lovell's compendium provides a key to the whole of the preceding history of the animal *materia medica*. His industry was truly prodigious, and his style worthy of his Greek proclivities and of the great Elizabethans whose literary spirit he seems to have caught in some considerable measure. Five lines will serve to show how the tincture of true literature may add colour to the austere facts of science. Lovell, in his supremely succinct fashion, says of mercury that "the best is that which lieth in mines neere gold or silver, and hath least of an arsenicall, antimonial, Saturnine, or cadmiose commixture, and leaves no excrement in the retort, or leaves a yellow or white spot, and not dimme or black, being evaporated in a silver spoone."

THE board of management of Burnley Victoria Hospital has decided to spend £5,000 on the purchase of radium for treating cancer.

TRADE MARK

WEDGWOOD MORTARS & PESTLES

Original and Sole Makers since 1780

JOSIAH WEDGWOOD & SONS LTD.

ETRURIA, STOKE-ON-TRENT, STAFFS.

"That your mortars resist the strongest acids was incredible history to several physicians . . . and they thought it necessary to make it known in their annals . . ."—An Amsterdam Chemist writing to Josiah Wedgwood, F.R.S., August, 25, 1780.

OINTMENTS

Attractive
1/2-oz. tins at 9/6 gross.Zinc B.P., Boracic B.P., Basilicon B.P.,
Sulphur B.P., Cold Cream, Antimidge, Herbal.Approval sample gross assorted 9/6 post free or
sample of each post free 5d.

C. A. STOKES & CO., LTD., CHEMISTS, BRISTOL.

PLAIN and WICKERED

STONE BOTTLES & JARS

FOR SPIRITS, ESSENCES, CHEMICALS, &c.

HUNT'S Limited, Stoneware Manufacturers,

Tel.: 426 Royal. 33 Henry Street, LIVERPOOL

PARKINSONS'

EASE

1/3 AND
3/- BOXESE. Z.
HEADWRITE FOR
SPECIAL TERMS

POWDERS

PARKINSONS LTD., THE PILL PEOPLE, BURNLEY.



THE TRANSPARENT WRAPPING MATERIAL

Insoluble, Odourless, Non-In-
jurious, Colourless and Coloured,
in Envelopes, Bags and Discs.SIER, VOSS & TOMES, 11b Upper Thames St., London, E.C.4.
Central 9677.In response to numerous enquiries we wish to inform the
trade that

"TY.PHOO TEA"

IS OWNED BY

Messrs. SUMNER'S TY.PHOO TEA, LTD.

CASTLE STREET, BIRMINGHAM,

WHO INVITE APPLICATIONS FOR TERMS.

"Panopepton"

The recognised pre-digested food
and food-stimulant for invalids.

Supplied in 12-oz. bottles.

Originated and Manufactured by

Fairchild Bros. & Foster (Inc. N.Y.)
NEW YORK, and 65 HOLBORN VIADUCT, LONDON, E.C.1

Agents:—

BURROUGHS WELLCOME & Co., London, Sydney, Cape Town.

Sal Hepatica

the medicinal saline laxative is in
steadily increasing demand through
constant medical recommendation.

NOTE THESE PRICES.

P.A.T.A. 1/3 and 2/6 per bottle.

Stock through your wholesaler and write for list of
special discounts showing handsome profit.

BRISTOL-MYERS COMPANY

112 Cheapside - - London, E.C.2

EXTRA
RECTIFIED

ALCOHOL FOR PERFUMERY

Write for Prices

J. BURROUGH LTD. 1 Cale Distillery,
LAMBETH, S.E.11

Editorial Articles

Draft D.D.A. Consolidated Regulations

NOTICE was given in "The London Gazette," on November 2, under the Rules of Publication Act, that the Secretary of State for the Home Office would make what is, in effect, a consolidation of the Regulations under the Dangerous Drugs Acts 1920-25 (*vide O. & D.*, November 10, pp. 581 *et seq.*). These regulations, after lying on the table of the House of Commons for forty days, and provided no action is taken, will be constituted into statutory Regulations to come into force on the specified date—i.e., January 1, 1929. Should any action be required, it must be taken before December 12, 1928. Largely, the Regulations are a reiteration of those which have been before published (1921-28), representing consolidation and simplification. However, that is not all, since they set out to bring within the purview of the regulations:—

- (1) Extract and tincture of Indian hemp;
- (2) Dihydroxycodine, dihydrocodeinone, and preparations containing them;
- (3) Preparations containing less than one-tenth per cent. of diacetylmorphine.

So far as (2) is concerned, it only possesses the interest attached to ecgonine. Attention should be called to certain modifications. Section 2 states that a person shall not supply, or procure, or offer to supply or procure, etc., for himself, unless he is duly authorised to do so, or in accordance with the terms and conditions of his authority. The authority is a medical prescription, and apart from this a chemist's authority is only to possess the drugs and to dispense the prescription. In other words, a chemist is committing an illegal act if, in the course of the day, while suffering from a persistent cough, he administers to himself a dose of a linctus containing a minute dose of diamorphine hydrochloride unless he, first of all, visits a medical man and obtains the necessary authority in the form of a prescription. While one understands what is the objective, it is a pity the draftsman did such a foolish thing as to insert "for himself," since the only possibility of finding out such a thing is owing to abuse, and the law is sufficient already without the insertion of a stupid phrase. Regulation 3 (b) defines possession: a person shall be deemed to be in possession of a drug or prepara-

tion if it is in his actual custody or held by any other person subject to his control or for him or on his behalf. Chemists have been adjured to clear stocks before January 1, 1929, but in view of this subsection it is doubtful whether it is a wise proceeding to allow a customer who has needed a heroin linctus for years to buy anything save for immediate needs. It is certain that possession of that linctus after January 1 next by the customer will constitute an offence. Fortunately, unless it is abused, no one will be any the wiser—and the law is what it has always been termed. The application of these laws to minute dilutions of diamorphine which cannot be abused is a new factor in the inhibition of the proper and legitimate use of medicine in this country. The regulations affirm that the drug shall not be delivered to a person who purports to be sent by or on behalf of the recipient (i.e., the person for whom the prescription is given) unless (4 (b)) he produces to the supplier a statement in writing signed by the recipient to the effect that he (the person purporting to be sent) is authorised by the recipient to receive the drug or preparation in question on behalf of the recipient and the supplier is satisfied that the document is a genuine document. It is clear by this that the only way for a patient to receive the drug if he is unable through sickness to give a signed statement is to depend upon the chemist to send the drug by his authorised messenger; again, the construction of the Regulation bears no relation to actual life and practice. A further attempt is made to define the "locked receptacle," but the result is not very happy; common sense is at a discount, as the phraseology makes no provision whatever for actual dispensing of medicines. It states: "Which can be opened only by him [the chemist] or by some assistant of his being a pharmacist." The practical working of a dispensing department is certainly not appreciated, or such unworkable wording would never be used. There is a marked difference between this kind of provision and the treatment meted out to medical men and now extended to dentists. Is it too late to press for a special pharmaceutical tribunal? Surely what is sound for one class is sound for another. The idea of an official form for "dangerous" drugs is dropped, presumably as too much of an additional burden for the prescriber. A prescription authorising a supply on more than one occasion must, in future, be retained by the first dispenser, and the patient must go to the same chemist for the second or third supply as prescribed. An attempt is made to define the terms used (which for the most part convey a clear enough meaning), but the definition of "pharmacist" cannot be allowed to go unchallenged, since it is contrary to the Poisons and Pharmacy Act, 1908. The definition states: "'Pharmacist' means a duly registered pharmaceutical chemist or chemist and druggist, and includes a company or firm lawfully keeping open shop for the retailing of poisons." The term pharmacist does not include this class, and not even a Government department has the power to subsume a company or firm under a personal title. The definition without doubt must be recast. Another definition is interesting: "'Preparation' means any preparation, admixture, or other substance containing such a proportion of drug as is sufficient to make a preparation, admixture, extract or substance a drug to which Part III of the principal Act applies." Part III of the principal Act defines medicinal opium, cocaine, ecgonine and diamorphine in their respective strengths, so that we are forced back on the 1925 Act for further definition. Section 3 (1) amends Part III, and adds: "And any extract or tincture of Indian hemp, and any preparation, admixture, extract or other substance containing any proportion of diacetylmorphine." In the consolidated Regulations we have "extracts or tinctures of Indian hemp." Note the plural used. The only extract and

tincture we know are those authorised in the British Pharmacopœia, which is our standard. Branded articles may have no specified strength to serve as a guide, but there is no doubt of their inclusion. Does the comma in the specification above given separate, entirely, extract and tincture of Indian hemp from preparation and admixture? The Geneva Convention is quite clear to any pharmacist. Control of narcotics Article 4 (F) states: "Galenical preparations (extract and tincture) of Indian hemp." The construction is confusing in the Regulations owing to bringing together the prohibition of all preparation, admixtures and substances containing diacetylmorphine in such close connection with extract and tincture of Indian hemp. As we have said, the standard of extract or tincture of Indian hemp is that of the British Pharmacopœia—or, to use the Home Office phrase, "a corn plaster containing a trace of extract of Indian hemp would be denaturised." For it is clear by the Geneva Convention what was the objective of regulation. In many respects the consolidated Regulations are an advance, and will be welcomed; but the flaws we have mentioned could easily be remedied if expert pharmacists were called in to assist. Clear ideas of definitions would be available and confusion eliminated. Our comments may be insufficient to press for a petition to the Crown, but we suggest that, before their final publication, these Regulations should be amended in much of their phraseology.

Controlling Forces in Mercury

SOMEWHAT exciting developments took place in the mercury market during October, chiefly in consequence of a brisk demand on the part of consumers just before the new arrangements of the Italo-Spanish Combine came into force. At the same time considerable confusion was created in consuming markets by the fact that the Central Selling Office of the Combine commenced to offer at £21 15s. f.o.b., or about £2 per bottle less than had been generally anticipated by the large importing merchant firms in London. This obviously quickly resulted in a substantial adjustment in the London spot price of well over £3 per bottle from the extreme highest figure touched in September last of about £25 10s. As remarked in our issue of October 6 (p. 436), the unsold stocks then in London (including imports to the end of August, were not large), but as had been generally expected as a result of the anxiety by importers to secure their supplies under contract from the mines of the Combine as far as possible before the export prohibition (except under Government licence) came into force, the U.K. receipts mounted up rapidly to 7,940 bottles for September, and 9,708 bottles for October—an aggregate for the two months of 17,648 bottles! On the inevitable substantial downward adjustment last month, already referred to, the trade demand, which had been particularly brisk from all quarters, naturally came to a standstill, as it became apparent that there were a few weak holders anxious to dispose of their stocks and sales were reported down to about £22 5s., but within the last few weeks a steadier feeling has prevailed. There is little doubt that surplus stocks, although of considerably larger dimensions, are concentrated in strong hands, and there has been quite a fair improvement in the general trade demand within the last fortnight or so. The spot position would seem to be well under the control of the larger London merchant interests, whose terms lately at about £22 10s., less the usual discount, allowing for a reasonable margin of profit, are certainly fully in line with the Combine's f.o.b. figure of £21 15s. for shipment. Partly in view of the ridiculously exaggerated estimates of the stocks held in London as given by a certain American authority, who places them "at anything between 40,000 and 50,000 bottles," an analysis of

the official U.K. returns covering the ten months to the end of October is of particular interest, inasmuch as imports have been swollen this year by an exceptional circumstance, incidental to arrivals amounting to 8,900 bottles, which, after landing chiefly at Liverpool, went direct into consumers' hands in fulfilment of a special order for 10,000 bottles, which has previously been referred to in our columns. The official Board of Trade returns are as follows:—

Bottles	1926	1927	1928
U.K. imports (October) ..	1,592	Nil	9,708
„ imports (Jan.-Oct.) ..	11,495	16,083	31,663
„ re-exports (October) ..	284	816	1,380
„ re-exports (Jan.-Oct.) ..	2,202	1,512	4,871
„ net imports, ten months (Jan.-Oct.)	9,293	14,571	26,792

Out of the net imports above mentioned for ten months of 26,792 bottles, and after allowing for normal home requirements at the rate of about 1,000 bottles per month (10,000 bottles), and 8,900 bottles for the exceptional order referred to (together about 19,000 bottles), it may be assumed that surplus stocks available for disposal at the beginning of this month were approximately 8,000 to 9,000 bottles, including the probably rather small stock carried into January this year. So far as we can gather the bulk of the surplus is held in very few hands. It was recently reported that old stocks at the Spanish and Italian mines were to all intents and purposes disposed of; and the view is now expressed in a quarter closely identified with the marketing of supplies, that there is not much to be shipped to this side for the next two or three months, so that it is unlikely that the stock held here will be pressed on the market beyond its current absorbing capacity. Stability would thus seem tolerably well assured over a certain period, but this hinges on the policy of the Italo-Spanish Combine regarding their futures sales. Should there be a revision of the pegged price, there is a feeling that this will be upwards rather than downwards. The resumption of ore operations by the Spanish mines took place on November 1, and distilling was apparently resumed a fortnight later. It will be, of course, some time yet before any very important new production becomes available, while it is well to bear in mind that under the new controlling arrangements between Italy and Spain the output is to be kept under restrictions more or less in line with prospective requirements. The regulation of production by the Combine is subject to developments in the American industry which have been, of course, favoured by the high price as indicated by the domestic output, which after being only 7,642 bottles in 1926 rose to 11,276 bottles in 1927, and may reach about 16,000 bottles for the current year. American imports this year will probably show a material reduction, and possibly not be much in excess of 14,000 bottles which, together with the prospective estimated production given above of 16,000 bottles, would make total American available supplies for this year of about 35,740 bottles, including the stock in bond of 5,740 bottles carried over from the previous year. The corresponding figure for 1927 gave an aggregate of 38,203 bottles, which points to the fact that the consumption has been somewhat checked by inflation in value. It is interesting to note that the yearly average of American consumption for the twenty years covering 1907 to 1926, based on imports, domestic production and the trivial exports, works out at approximately 25,000 bottles. While the domestic output is all absorbed directly from the mines by large consumers at \$5 per bottle below the duty-paid price quoted by importers, it is not making sufficient headway as yet, so that larger imports may again become necessary.

Westminster Wisdom

Notes on Parliamentary Matters.

PATENT OFFICE

Mr. H. Williams informed Sir N. Grattan Doyle, on November 20, that the surplus of receipts over expenditure of the Patent Office for the years 1922-27 was as follows:—1922, £74,074; 1923, £81,798; 1924, £75,203; 1925, £88,540; 1926, £98,813; 1927, £112,939.

DISTILLING INDUSTRY

Replying to a question put by Mr. Fenby, on November 12, Mr. Samuel stated that the number of proof gallons of British spirits distilled in England and Northern Ireland and in Scotland in the year ended March 31, 1928, amounted to:—England (and Northern Ireland), 12,391,868; Scotland, 18,988,437.

RADIUM

The Parliamentary Secretary to the Ministry of Health (Sir Kingsley Wood) informed Sir H. Brittain, on November 19, that the whole question of the radium requirements of this country in relation to present sources of supply is at present under consideration by a Subcommittee of the Committee of Civil Research.

SAFEGUARDING DUTIES

The Chancellor of the Exchequer (Mr. Churchill), in a written reply to Mr. Sexton, on November 15, gave the following figures as being the approximate total net receipts derived from the several Safeguarding Duties from the dates of imposition up to October 31, 1928:—

	£
Key industry goods	3,255,000
Depreciated currency goods (to August 19, 1924) ..	504,000
Cutlery	273,000
Gloves	1,630,000
Gas mantles	23,000
Lace and embroidery	742,000
Packing or wrapping paper	1,348,000
Translucent or vitrified pottery	106,000
Buttons	66,000
Domestic hollow ware	18,000

METHYLATED SPIRIT

The following table, supplied by Mr. Samuel in reply to a question put by Mr. Fenby, on November 12, gives the quantities of methylated spirits issued during the year ended March 31, 1928:—

	Bulk gallons
Power	16,745
Industrial	4,183,301
Industrial (pyridinised)	323,682
Mineralised	1,577,144

NATIONAL HEALTH INSURANCE

Mr. Ammon asked the Minister of Health, on November 15, whether panel doctors may prescribe liver extract in cases of pernicious anaemia.

Mr. Chamberlain: The decision of the question whether this or other preparations can be regarded as drugs or medicines within the meaning of the National Health Insurance Acts rests primarily with insurance committees. But in response to inquiries made on behalf of committees I have indicated that there is nothing before me to suggest that this preparation could properly be regarded as being excluded from the scope of medical benefit in any cases in which it is requisite for the patient's treatment. Replying to a question by Miss Wilkinson, the Minister of Health stated that he did not think he had any power to issue regulations to ensure that one person is not deprived of rights which another person similarly insured gets.

POISON-LICENCES IN MIDDLESEX.—The Middlesex County Council, during the year, issued three new licences to shopkeepers permitting the sale of certain poisons for use in agriculture and horticulture. There are now in force nine shopkeepers' and five assistants' licences in the county.

Ortho, Meta, Para

By Leonard Dobbin, Ph.D.

I.—Introduction of the Prefixes into Chemical Nomenclature

THE three prefixes, *ortho*, *meta*, and *para*, when employed in association with one another, at once bring to the minds of those who have made even a beginning in the study of the derivatives of benzene, a clearly defined theoretical conception concerning the isomerism that has been found to exist amongst certain groups of these derivatives. It is intended, in a short series of articles, to direct the attention of students and of other interested readers to certain points connected with this isomerism and, in particular, to outline the progress of investigation and opinion concerning the problem as to which of the respective isomeric di-substituted derivatives were to be regarded as *ortho*, which *meta*, and which *para*.

It will be convenient to refer briefly, in the first place, to the antecedents of the three prefixes which form the general title above. In the chronological order of their introduction, *ortho* was the first to be employed in scientific terminology, having been introduced early in the nineteenth century (apparently by the mineralogist Breithaupt) as part of the distinctive name "orthoclase" applied to potash felspar. In this connection it had a definite derivational signification with respect to the cleavage of potash felspar, which cleavage differs materially from that of soda felspar, or "oligoclase," as the latter variety of felspar was named. The present writer has not been able to ascertain with certainty, though consulting original memoirs, who introduced the prefix *ortho* into purely chemical, as distinguished from mineralogical nomenclature, but its first application in chemistry appears to have been to some of the so-called ortho-acids. In an article in Watts's Dictionary (Vol. IV, p. 238) its introduction is attributed to Odling, but a search through Odling's published papers and books has not led to the discovery of any formal mention of its adoption. In a paper printed in the "Philosophical Magazine" in 1858, Odling writes quite uniformly about "ordinary" phosphoric acid where (the other acids of phosphorus also being mentioned) it is obvious that he refers to the acid which we now call orthophosphoric, whereas a year later, in another paper in the same magazine, he writes familiarly about orthophosphates and orthosilicates without giving the prefix a formal introduction or making reference to its employment as being in any way novel. It would thus appear that the prefix *ortho* was first used as a distinguishing prefix in chemistry about the year 1859. At any rate, it is not to be found in chemical indexes at an earlier period, otherwise than in the name of orthoclase already referred to.

Next in order of seniority in scientific, although actually first in purely chemical, nomenclature comes the prefix *para*, and this was introduced with a great deal more ceremony. It was Berzelius, in 1830, who first employed it, and the occasion followed the recognition of racemic acid as possessing the same composition as tartaric acid. The following is the passage in Berzelius's paper in the "Transactions of the Swedish Academy of Sciences" in which the prefix *para* is introduced:—"If we assume that there are not more than two isomeric compounds of each species—which, by the way, cannot be regarded as established, although we do not know more—these may, in those nomenclatures which are based upon Latin, be distinguished by the addition of a particle to the name: for this purpose we may appropriately employ the Greek word *παρά*. because this says that the name signifies a variation from the simple word with which the *para* is united; as, for example, in paradox. If we call the acid of phosphorus which results from ignition *acidum phosphoricum* and its salts phosphates, then we may call the acid which has been modified by water *acidum paraphosphoricum* and its salts para-phosphates. In the same manner we may call uvic [i.e., racemic] acid *acidum paratartaricum* and its salts paratartrates. One of the tin oxides—say the one precipitated by alkali from the solution of the volatile chloride—can be called *oxidum parastannicum* and its salts, for example, *sulfas parastannicus*, etc. A certain arbitrariness must necessarily arise in this mode of naming sub-

stances, inasmuch as it is not always easy to determine which of two modifications should bear the simple name."

The prefix *meta* was first employed in chemical nomenclature in 1833 by Graham in describing his "Researches on the Arseniates, Phosphates and Modifications of Phosphoric Acid," in the classical paper which first established the nature of the relationship to one another of the three acids which are referred to phosphorus pentoxide as their acid anhydride and introduced into chemistry the conception of varying basicity amongst acids. In the discussion of his results Graham writes:—

(1) "I shall take the liberty to designate provisionally the acid of the fused biphosphate of soda, the metaphosphoric acid, from an hypothesis of its constitution to be immediately explained, and the fused salt itself, the metaphosphate of soda," and

(2) "Although of opinion that there is only one phosphoric acid, and that the modifications are entirely due to the quantity of water combined with the acid, I have still retained the names which have come into use, and even proposed a third, *metaphosphoric acid*, implying merely that the acid to which this name is applied is phosphoric acid with something else, namely, with an atom of water."

It will be observed that in no instance had the first employment of these distinguishing prefixes any connection with derivatives of benzene. Their application to isomeric di-substituted derivatives of benzene only took place at considerably later dates.

II.—Benzene and Some of Its Derivatives

The wonderful parent substance, benzene, was discovered by Faraday in 1825, in the fluid which was deposited during the process of compressing the gas derived from the decomposition of oil at a high temperature. At an earlier period Faraday had been engaged upon the liquefaction, by pressure, of a variety of gases, including chlorine, sulphur dioxide, carbon dioxide, hydrogen sulphide, hydrochloric acid, and ammonia, and he was, naturally, interested in the effects of increased pressure upon gases in general. At the date mentioned, the Portable Gas Company supplied to consumers illuminating gas derived from oil, this gas being sold, compressed, in wrought-iron receptacles under a pressure of about thirty atmospheres; and it was during the process of compression of the gas that the fluid examined by Faraday was deposited—one thousand cubic feet of the gas yielding nearly a gallon of the fluid. It was by fractional separation from this fluid that Faraday obtained benzene for the first time. Incidentally, it may be mentioned that he also isolated isobutylene, $(CH_3)_2C=CH_2$, from it, and thereby added one more to the then very small number of known instances of isomeric—or rather, polymeric—substances.

Benzene was afterwards obtained, in 1833, by Mitscherlich, by the distillation with slaked lime of the benzoic acid derived from gum benzoïn.

As a product of the distillation of coal, it was first obtained in anything approximating to a pure condition by John Leigh, in the early forties of last century, having been separated by him in the fractional distillation of the products obtained by the re-distillation of coal-tar. It was produced in small quantity, synthetically, in 1866, by Berthelot, by the polymerisation of acetylene.

Prior to the year 1861, there had been more or less fully investigated, at the hands of various chemists, a considerable number of substances which had come to be classed together in a somewhat general, and not always quite accurately descriptive manner, as "aromatic" compounds, certain representative members actually possessing an aromatic character. In the cases of a number of these, evidence had been obtained which indicated that they were closely related to, and could be regarded as derivatives of, benzene. The general nature of this relationship had, moreover, been suggested with a moderate degree of confidence in respect of some of the less complex compounds, as the result of the study of the transformations which these underwent in various reactions, most of which involved decompositions. A number of simple benzene derivatives had by that time also been prepared by the direct action of chlorine, bromine, nitric acid, etc., on benzene. A few

examples of the earlier known and simpler benzene derivatives may be mentioned:—

Benzoic acid had been known from the beginning of the seventeenth century, having been obtained from gum benzoin by sublimation.

Aniline was obtained in 1826 by Unverdorben by the distillation of indigo.

Nitrobenzene was prepared by Mitscherlich, in 1834, by the action of nitric acid on benzene derived from benzoic acid.

Phenol was discovered in, and isolated from, coal tar by Runge, also in 1834.

Toluene was obtained by Pelletier and Walton in 1838, as a product in the manufacture of illuminating gas from resin.

Little or no classification of the aromatic substances was made, nor was there any attempt at explaining their constitution, prior to 1861. In that year the Austrian physicist, Loschmidt, expressed the view that in the substances belonging to the phenyl series there was a common nucleus consisting of six carbon atoms, which in benzene, C_6H_6 , had its combining capacity satisfied by union with six hydrogen atoms, whereas in hexane, C_6H_{14} , the corresponding hydrocarbon of the paraffin series, fourteen hydrogen atoms were required to satisfy the combining capacity of the group likewise consisting of six carbon atoms. He suggested, somewhat vaguely, that the difference in the phenyl series might be considered as the result of a "condensation" of the nucleus, or perhaps rather of a "layering" of the carbon atoms in a way that could be represented diagrammatically by Fig. I below; but he regarded it as at that time impossible to reach any definite conclusion respecting this and contented himself by adopting the circle, Fig. II, as representing the six-carbon-atom nucleus. Fig. III is his diagram for benzene, the six smaller circles representing the six hydrogen atoms.



Employing the symbols reproduced here, together with others to represent other elements, he constructed diagrams illustrating his views regarding the constitution of 121 aromatic compounds. In many of these the phenyl group, C_6H_5 , appears, and in a few, of which those representing salicylic acid and phenylene-diamine are examples, the phenylene group, C_6H_4 , is included.

(To be continued.)

The Spelling of Euonymus

THE spelling of euonymus is dealt with in the third article of a series by T. A. Sprague in the Kew "Bulletin of Miscellaneous Information" (No. 7, 1928). It is pointed out that Linné, in 1753, adopted "evonymus," but changed to "euonymus" in the following year. Schinz and Thellung, in 1907, adopted the spelling with a "v" on the ground of priority of publication, thus assigning precedence, as regards a generic name, to the first edition of the "Species Plantarum," which has no generic descriptions, over the fifth edition of the "Genera Plantarum," which contains the corresponding descriptions. Robinson and Fernald (1908) took the same view. Mr. Sprague suggests that where there is a difference in spelling, (1) the more correct form should be adopted, whether it occurs in the "Species" or the "Genera," and that where the two spellings are equally correct, (2) general usage, or (3) established custom in transliteration should be followed. "Euonymus" was adopted in Bentham and Hooker, the Index Kewensis, and other works of reference. On the other hand, "evonymus" was accepted in Engler and Prantl, Schinz and Keller, and other text-books. As there is no great preponderance in either usage resort may be had to the third method suggested. Since the Greek $\epsilon\upsilon$ is customarily transliterated as "eu" in botanical names, "euonymus" should be adopted in preference to "evonymus."

Iodine in Fish Products

A PROVISIONAL report by Gulbrand Lunde and Karl Closs, of the University Pharmacological Institute, Oslo, states that sea fish contain a comparatively greater amount of iodine than land animals or plants, and that this amount does not, for the greater part, pass out when the fish is packed or converted into the form of stockfish. About 70 per cent. of the iodine content of the cod passes out into the watery lye during the cleaning that precedes the actual preparation, and the quantity of iodine that can be separated out with water from stockfish is fairly large. Iodine which cannot be extracted from split cod with water must be present as organic matter in the fish, probably in the form of albuminoids or as fats. It has been ascertained that by far the greater part of the water soluble iodine is also in organic combination. Samples of the cod (*Gadus morrhua*) from three different localities—Finnmark, Lofoten and Sunnmøre—have been examined. Variations in the iodine content or its distribution were only very slight, and the following table summarises the average results of the researches:—

Form of Iodine	Mg. per kilo	Per cent.
Total content ..	3.21-4.21 (5.55-6.82)	—
Insoluble in water ..	1.16-1.24 (1.87-2.15)	27.5-38.3
"Lipoid" ..	0.28-0.60 (0.49-0.97)	8.8-14.2
Inorganic ..	0.02-0.05 (0.04-0.07)	0.8-1.2
Organic residue ..	1.54-1.59 (2.49-2.76)	41.9-49.7
"Albumenoid" ..	0.08-0.39 (0.14-0.64)	2.5-10.7

(Numbers in brackets denote the iodine content expressed in terms of stockfish).

To determine the nature of the iodine combinations of the aqueous extract (which contains approximately 40 per cent. of the total stockfish contents and much sodium chloride), the compounds separated off by chloroform in an acid solution were isolated. These are mostly fats and lipoids, and this fraction was therefore designated "lipoid" iodine. The iodine liberated in an acid solution by means of nitrite-sulphuric acid and then chloroform was called "inorganic" iodine, although certain organic iodine compounds show the same properties. The iodine, insoluble in chloroform and not reacted on by nitrite-sulphuric acid but soluble in alcohol, was termed "organic residue." Certain iodine compounds which are soluble in water but not in alcohol make up the fraction described as "albuminoid" iodine. The table shows the relative proportions of the various fractions. As the quantities involved are so exceedingly small, no attempt has yet been made to isolate any of them, but similar researches on the distribution of iodine in other fish products by analogous methods.

It has been verified that stockfish of haddock (*Gadus aeglefinus*) contains "lipoid" iodine in about the same proportion as the similar product from cod. Researches so far indicate that fish which feed mainly on the ocean bed or deep-water fauna, such as the haddock, contain more iodine than those which derive their nutriment from higher water levels. Thus haddock stockfish contains about six times as much iodine per kilo. as the codfish (*Gadus virens*), and about twenty times as much as the herring (*Clupeoides harengus*), while cod (*Gadus morrhua*), which subsists from a medium diet, contains approximately as much iodine as the haddock. The large iodine content in the deep-water shrimp (*Pandalus borealis*), a typical deep-sea fish, supports this hypothesis. In the shrimp the iodine is concentrated principally in the skull and the internal organs, and the muscular system is comparatively poor in iodine. It seems probable that the upper layers of water give up their iodine to the algæ, which convey it to the bottom, whence it commences the cycle in organic circulation.

AN ARSENIC LIMIT FOR FISH?—"In the C. & D. editorial article on the Government Chemist's report," writes a correspondent, "it is stated that four samples of herring containing two parts by weight of arsenic per million, being less than that generally found in plaice. Several B.P. chemicals are allowed only this proportion: would the unfortunate plaice be prosecuted if they rose above this limit?"

Pharmacy in South Africa

THE following interesting article on pharmacy as a career in South Africa appeared in a recent issue of the "Social and Industrial Review," a monthly journal published by the Union Government. The writer is Mr. Edward C. Davies, M.P.S., M.Sc. (Manch.), lecturer in pharmacy, Natal Technical College, Durban.

APPRENTICESHIP

"The standard of preliminary education required of the prospective pharmacist has of recent years been brought into line with that required for admission to the other professions. No one can become an indentured pharmaceutical apprentice unless he has passed the matriculation examination or an examination which, in the opinion of the Pharmacy Board, is of a similar standard. On registration being approved by that body, the prospective pharmacist enters on a term of apprenticeship of not less than three years. As in all apprenticeships, remuneration is small, and in some cases a premium has to be paid to the employer. In general the salary paid is approximately £4 a month the first year, £6 the second year, and £8 the third year.

"During the serving of his indentures the apprentice receives a training in the art of dispensing medicines, becomes generally familiar with drugs and their uses, and receives a more or less thorough business training. In order, however, to enable him to pass the stringent Government examination, which entitles him to style himself a registered chemist and druggist, it is necessary that courses of instruction should be taken in subjects which, whilst not part of his everyday training in the pharmacy store, form the basis upon which the practice of the profession of pharmacy rest. Such training embraces tuition in the following subjects:—Chemistry, botany, physics, a knowledge of drugs and their sources, and theoretical pharmacy.

COURSES AT TECHNICAL COLLEGES

"To provide such knowledge for apprentices, local technical colleges in the larger centres have initiated special pharmaceutical courses. To the apprentice indentured in the town this is of inestimable value. In one town in the Union the local technical college has an arrangement with the master pharmacists to allow their apprentices two free afternoons a week in order that they may attend lectures and practical work. This collaboration is a refreshing example of the appreciation of technical education as a means of benefiting both apprentice and master. The provision of pharmaceutical education by these institutions has increased very largely during recent years.

"During the first year of his apprenticeship the student at the technical college embarks upon his first-year course. This course covers the following subjects:—Chemistry, theoretical and practical botany and physics. In the second year the study of these subjects is continued. In the third year the subjects are dispensing, materia medica and theoretical pharmacy. At the conclusion of his apprenticeship the student now becomes an unqualified assistant, and remains such until he passes the Qualifying examination. This cannot be taken until he has reached the age of twenty-one.

ASSISTANTS' SALARIES

"The salary of an unqualified assistant varies from £15 to £20 a month. If he does not take his examination, and elects to become permanently an unqualified assistant, he may reach the salary of £25 a month, but will not usually get more than this.

FACILITIES FOR STUDY

"It will be recognised from the foregoing that the apprentice in the country is placed at a great disadvantage compared with his 'town cousin.' In order to provide for the country apprentice, full-time courses have been instituted in Durban and Johannesburg. This course provides nine months of intensive study, which, if the student has some preliminary knowledge, is sufficient to enable him to pass his Qualifying examination. The examination itself is conducted by examiners chosen by

the Board, and who submit their decisions for confirmation to the Board itself. When the Board has given its approval in regard to the successful candidates, they are then duly registered, on the payment of a fee, as qualified chemists and druggists.

"This confers upon them the legal right to keep open shop for the sale of medicine, drugs and poisons.

THE PHARMACISTS' PROSPECTS

"The openings for qualified pharmacists are many and varied. They may go into business for themselves, or they may enter large retail establishments as qualified assistants or managers. Salaries range from £25 to £35 a month. They may also act as hospital dispensers, whilst the wholesale trade absorbs a small number. A qualified employee in the wholesale may reach a much larger salary than that quoted above.

"For a youth of the right type the profession of pharmacy offers an interesting career, which, while not too highly gilded, provides a respectable living."

New Zealand Kauri Gum

THE kauri gum trade during the quarter ended March 31, 1928, showed little improvement over the previous year. Production of kauri gum arriving at Auckland for the first quarter of 1927 and 1928 was as follows:—

	1927	1928
	Long tons	Long tons
January ...	265	278
February ...	198	307
March ...	441	411
Total ...	904	996

During the first quarter of 1928 exports of gum to the United States were 1,247,196 lb., valued at \$188,120, against 1,168,193 lb., valued at \$179,793 for the same period the previous year. Prices for this year remain at about the same level as last year, and include tax imposed by the Control Board. The Kauri Gum Control Board continues to confine its operations to that of a small trader and the collection of the tax authorised for its maintenance. A request made by the Control Board for exporters to supply full information regarding fixation of values brought about a protest from the trade as an intrusion upon their private business affairs. The grades of kauri are so numerous, and such small amounts are sold in Auckland owing to the greater part being purchased by private contract for export, that it is difficult to place market values. It is reported by the dealers that efforts are being exerted by the Control Board to establish a standard Government grade of kauri. Unofficial but reliable sources place the receipts of kauri gum in Auckland for storage at 2,012 tons for the first six months of 1928, an increase of 160 tons over arrivals of 1,852 tons for the same period of 1927, but a decrease from arrivals in previous years, which were 2,744 tons and 2,275 tons during the first six months of 1925 and 1926 respectively. The export business in kauri remains almost stationary in total quantity, but greater amounts were shipped to the United States during the second quarter of 1928 than for the same period of 1927. The table given below indicates a decrease in the unit of value of the gum exported, but this appears to be brought about by a demand for the lower grades of gum rather than because of any marked decline in grade prices:—

	1927		1928	
	lb.	Value	lb.	Value
Total exports (Jan. to May 31) ..	4,332,000	£ 125,800	4,433,000	£ 103,000
To United States—				
(March quarter) ..	1,168,198	36,000	1,247,196	37,600
(Jan. 1 to June 30) ..	2,119,450	66,000	2,539,791	70,000

BOLTON Royal Infirmary has opened a new department for x-ray and light treatment, the gift of Mr. and Mrs. Tom Jackson.

Dental Board of the United Kingdom

THE fifteenth session of the Dental Board of the United Kingdom opened in London on November 13, the chairman (the Rt. Hon. Sir Francis Dyke Ackland) presiding. Following the customary routine business, which included the introduction of Sir Norman Walker in succession to the late Sir James Hodsdon, came

THE CHAIRMAN'S ADDRESS,

which was unusually brief. The address opened with a reference to the loss by death of three members of the Board, Sir James Hodsdon, Sir Arthur Chance and Sir Charles Tomes. The most interesting feature of the address was the following reference to the retention fee:—

The difficult question of the retention fee was dealt with at the last meeting of the Board, a degree of agreement and of harmony being established within the Board which will, I hope, be reflected outside. We have fixed a really low payment for practitioners in their early years, and thereafter one at which no one ought to grumble. I have tried to look ahead as far and as well as I can, and I have come to the conclusion that, though we shall have to be careful, as is only right, for some years, we shall not be unduly cramped either in continuing our present work or in starting upon certain new work which we have in sight. After a few years our fee income will increase, and this will allow of some expansion of our activities. Though little can be regarded as permanently settled in this life, I venture to hope that the fee question may now be allowed to rest, at any rate for some time.

The remainder of the address dealt with grants to dental schools, daylight signs on dentists' premises, and the new Dentists' Act of the Irish Free State, where company practice is now prohibited.

DISCIPLINARY CASES

The first of the disciplinary cases taken was one that had previously been before the Board, and had reference to the notices outside the premises of Mr. R. A. B. Stilley, L.D.S., 59 Leeming Street, Mansfield (*C. & D.*, 1928, I, 619). After certain correspondence had been read, the chairman announced that the case was adjourned to November 1929.

The next two cases, adjourned from the May session of the Board, had reference to convictions for drunkenness accompanied by the suspension of driving licences. The respondents were Mr. James Ireland, The Elms, Wymeswold, Loughborough, and Mr. Samuel L. Milliken, 107 Great Victoria Street, Belfast. Both gave satisfactory assurances as to their future conduct, and their cases were discharged.

Another case adjourned from the May session was that of Mr. William H. Parker, 81 Whitley Road, Whitley Bay, who had been charged with canvassing (*C. & D.*, 1923, I, 619). The case was postponed for a further six months.

Mr. Wilfred Henry Weeks, 42 Prince of Wales Road, Norwich, was summoned to appear in consequence of a conviction at Harwich for attempting to evade payment of import duties on spirits. The facts were proved, and the finding of the Board was postponed for a year, with the customary stipulation.

The case of Mr. Paul Maurice Koonin, 78 North End, Croydon, who was charged with canvassing, occupied part of the sittings of November 13 and 14. The facts alleged were not proved to the satisfaction of the Board.

The announcements exhibited outside the premises of Mr. Frederick Dunhill, 69 High Road, Wood Green, London, N.22, were the subject of a charge of infamous or disgraceful conduct in a professional respect. The respondent attended, together with his solicitor, who gave satisfactory assurances that the signs would be altered as directed by the Board.

PROPRIETARIES AT A POST OFFICE.—In the "Sheffield Reg' ter" of 1791 Mr. R. James, postmaster of Sheffield, gave notice that the Post Office would be removed from Market Place to Castle Street, and added: "At the Post Office will continue to be sold all the most esteemed and publicly advertised medicines, genuine."

New Books

Ward, E.—*Favourite Prescriptions, including Dosage Tables and Hints for Treatment of Poisoning*. Second edition. 6½ in. by 4 in. Pp. 101, interleaved with blank pages. 5s. J. & A. Churchill, 40 Gloucester Place, London, W.1. [The first edition appeared in 1926. The fact that some complaints receive a much more liberal allowance of prescriptions than others that are equally widespread is a point that may be worth attention in the next edition. The assistance of Mr. H. B. Stevens, F.I.C., Ph.C., is acknowledged.]

Cooper, J. W., and Dyer, F. J.—*A School Course in Dispensing for Pharmaceutical Students*. 7½ in. by 4½ in. Pp. 282. 7s. 6d. Pitman & Sons, Ltd., Parker Street, London, W.C.2. [The ground that students of dispensing need to traverse is well and systematically covered in this manual; the subject of sterilisation, for example, occupies eleven pages. One of the two posological tables consists of doses arranged in ascending order of size, beginning with $\frac{1}{160}$ gr., the idea being to facilitate memorising. The authors evidently disagree with the British Pharmacopœia view that menthol is in Latin an indeclinable noun. A bibliography and an index are useful features of the book.]

Shrubsall, F. W.—*Training for Travelling Salesmen*. 7½ in. by 5 in. Pp. ix + 80. 2s. 6d. Sir Isaac Pitman & Sons, Ltd., Parker Street, Kingsway, London, W.C.2. [The author contends that there are a large number of canvassers on the road, but, while they may travel with the idea that they are representatives of a firm, the majority are not salesmen in the real meaning of the word, and his object in writing the book has been to assist the embryo "salesman-representative." The matters dealt with include preparation, essential qualities of salesmanship, the buyer and how to deal with him, know the articles you handle, survey and knowledge of territory, knowledge of competitors and competing lines, establishing goodwill and business building versus order getting.]

Ashton, H. A.—*One Thousand Questions and Answers on Company Law*. 8½ in. by 5½ in. Pp. 260. 5s. London Financial Service, Ltd., 69 Fleet Street, London, E.C.4. [This book, as its name implies, covers the field of company law and practice by a novel method that will commend itself to business men who like a clear, brief answer to any problem by which they may be perplexed. The book supplies, we should imagine, a reply to every question that is likely to arise in the ordinary course of events, and although no attempt has been made to observe any classification or sequence in the arrangement of the answers, no difficulty is experienced in turning up any particular point owing to the fact that the book is profusely indexed. Undoubtedly, the book is an exceedingly useful one.]

Dobbin, L., and Mackenzie, J. E.—*Salts and Their Reactions: A Class-Book of Practical Chemistry*. 8½ in. by 5½ in. Pp. 229. 7s. 6d. James Thin, 54-55 South Bridge, Edinburgh. [In the preparation of this edition—the fifth—Dr. Dobbin has collaborated with Dr. J. F. Mackenzie in place of the late Professor Marshall. The subject-matter has been thoroughly revised and brought up to date, and, as the title suggests, deals with the nature and properties of salts and general methods of preparation. Pages 1-46 contain a survey of the theoretical principles of the subject. These include the ionisation hypothesis, which receives fairly full treatment, as well as its application to the phenomena of abnormal molecular weights, reactions of salts, colours of ions and of salt molecules, strength of acids and bases, double decomposition, double salts and complex salts. Notes on indicators and the hydrogen-ion concentration are given. Reactions of salts are dealt with under metallic radicals, acidic radicals, and dry-way reactions. The section on volumetric analysis comprises the most common determinations. There are two appendices dealing with experiments with organic substances, and notes on the common reagents. Table of atomic weights and solubilities are included, and an index is provided. The book deals with many topics which have become regular examination questions.]

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

ENGLAND AND WALES

Bedfordshire.—The Insurance Committee met on October 31. The Pharmaceutical Service Subcommittee reported upon three cases in which the analysts' reports upon test prescriptions had disclosed inaccuracies. In the first the chemist attended before the Subcommittee and stated that he attributed the discrepancy to faulty scales. They found that the chemist was guilty of carelessness and recommended that 10s. 6d. be deducted from the remuneration due to him. In the second case it was stated that the chemist's assistant had used ordinary counter scales for weighing the drugs, and the Subcommittee recommended that the chemist be cautioned. The chemist in the third case did not attend before the Subcommittee, although the meeting was arranged for his convenience. As no explanation of the discrepancies was forthcoming, the Subcommittee reported that they must attribute the discrepancies to carelessness, and recommended that £2 2s. be deducted from his remuneration. A member said that some of them attended the meeting at an inconvenience, and questioned whether the fine suggested was sufficient. In reply to questions as to what portion of the fines was for the chemicals not supplied, it was stated that in the whole of these cases there was no suggestion of dishonesty or unfair gain. The recommendations were carried.

Buckinghamshire.—At a meeting of the Insurance Committee, on November 7, the Pharmaceutical Service Subcommittee reported on two cases of testing drugs and appliances. In the first the portion of the medicine retained by the Committee was sent to an independent analyst, but the Committee was subsequently informed that no independent analysis would be made. The proprietor of the business stated that while he regretted the error revealed by the analysis, he could offer no definite explanation. Bottles cast shadows over the scale. The Subcommittee recommended that the chemist be cautioned. In the second instance the chemist did not avail himself of his right to have the portion of the medicine in the possession of the Committee analysed. He offered no excuse nor pleaded any extenuating circumstance for supplying ingredients for an 8-oz. medicine in respect of a prescription ordering 6 oz. He stated that very few 6-oz. prescriptions were dispensed at the establishment, and suggested that his dispenser "subconsciously calculated and weighed out the quantities for an 8-oz. bottle." The chemist was cautioned.

London.—At the meeting of the Insurance Committee, held on November 1, the Finance Subcommittee recommended the payment of accounts amounting to £219,023 18s. 9d. Among these were the following:—Testing of drugs (incidental expenses), £2 7s. 1d.; Canonbury Place pricing department, £541 1s. 7d.; to chemists for the medical year 1928, £19,180 15s. 2d. The accounts were passed. The Subcommittee further reported that the Ministry of Health had credited the Drug Fund, 1927, and the Chemists' Fund, 1927, with the sums of £21,509 15s. 4d. and £25,208 18s. 10d. respectively. The following payments were made to chemists in respect of the year 1927:—January 1 to July 31 (Drug Fund), £177,944 19s. 7d.; August 1 to December 31, Chemists' Fund, £100,207 18s. 10d. The provisional sums credited by the Ministry were £158,000 and £75,000 respectively. For the year 1926 the total amount expended was £272,896 18s. 9d. The report of the Medical Benefit Subcommittee stated that in September 1927 the Committee expressed the opinion that all medicinal containers supplied to insured persons should be graduated, and decided to ask the Ministry to consider the insertion, in the times of service for persons supplying drugs and appliances, of a clause to have effect to the proposal. In reply the Minister stated that he had been in consultation with the Retail Pharmacists' Union, who informed him that they were averse to the suggestion that an obligation of this nature should be laid upon the chemists. The Minister understood

that it would be impracticable for a chemist to supply a graduated bottle on every occasion, as the manufacture of graduated bottles is practically confined to certain sizes, and some sizes were unsuited for graduation. The Subcommittee added that they had received a letter from the Pharmaceutical Committee stating that they had issued a circular advising chemists to use graduated bottles in those cases wherever practicable, and that it was within their knowledge that it is the practice of chemists in London to supply medicines in graduated bottles wherever that course is practicable. The Subcommittee proposed to take no further action. The action of the Subcommittee was approved. The Medical Benefit Subcommittee also recommended that Antigermin, liquid Antigermin, Ching's pine pastilles, Dermisol ointment, Filsol powders, Hazeline cream, Intubine, Resinol ointment and Radiostol pellets are preparations which should not be allowed to insured persons at the cost of the Chemists' Fund, and that no further payment be made in respect of these articles contained in prescriptions which are dispensed on and after December 1 next. The recommendation of the Subcommittee was adopted. The Subcommittee submitted the following statistics in reference to the prescriptions issued during the month of July, with similar figures for July 1927:—

	July 1927	July 1928
No. of prescriptions ...	568,882	594,436
Cost of ingredients ...	£9,149 8s. 1d.	£8,985 2s. 5d.
Cost of dispensing fees ...	£10,818 16s. 6d.	£10,872 8s. 5d.
Av. cost of ingredients	3.73d.	3.63d.
Av. cost of dispensing fees	4.41d.	4.39d.
Total no. of persons ...	1,796,000	1,816,512
Av. no. of prescriptions per person ...	0.33	0.33
Av. cost per person ...	2.67d.	2.62d.

The Subcommittee reported that belladonna ointment dispensed by a firm of chemists was submitted to the Committee's analyst, who reported that belladonna ointment, B.P., should contain approximately 0.6 per cent. of alkaloids, and that they found that the sample submitted contained 0.88 per cent., which was equivalent to a percentage error of 46.6. The independent analyst appointed by the chemists found that the sample contained 0.62 per cent. of the alkaloids of belladonna. The Subcommittee stated that they were faced with the difficulty of having to decide between the reports of the two analysts. Had the prescription ordered something other than belladonna ointment they should have followed their usual practice and accepted the report of the Committee's analysts, but experience has shown that belladonna ointment is not suitable for testing purposes. Having regard to all the circumstances, they recommended that no further action be taken in the matter. The recommendation was adopted.

Walsall.—What was stated to be an undeserved reflection on chemists was removed at a meeting of the Insurance Committee on November 7. At a previous meeting a report was presented to the effect that three samples of medicine had been analysed and deficiencies disclosed, but subsequently it was reported that there was a satisfactory explanation. The Pharmaceutical Service Subcommittee wrote suggesting that in future such reports should not be presented to the Committee and published in the Press until the investigations had been completed. Speaking in support of this, Mr. E. M. Elliott stated that the medicine in question was a bismuth mixture containing a powder which sank to the bottom. When the medicine was divided into samples for the purpose of being analysed, it was practically impossible to ensure that the separate portions were exactly similar in their contents, and it was found that the discrepancy reported by the analyst was caused solely by this difficulty. The explanation of the chemists concerned was accepted unreservedly by the Subcommittee, who were satisfied that the medicine in question was correctly dispensed. The suggestion contained in the Subcommittee's letter was referred to the General Purposes Subcommittee for consideration; and with a view to obviating similar difficulties in analysis in future it was decided to consider the question of adding to the Walsall formula a suspending agent which would help to ensure the ingredients in such medicines being equally distributed.

Japan's Foreign Trade

THE figures showing the extent of Japan's foreign trade for the first six months of the year (January-June, 1928) are contained in the monthly report for June. The total imports of merchandise were valued at 1,179,430,063 yen, compared with 1,246,306,749 yen during the same period in 1927, and 1,399,293,960 yen in 1926. Exports were valued at 943,304,365 yen, against 949,064,226 yen, and 993,893,504 yen, respectively, for 1927 and 1926. Import duties amounted to 78,685,730 yen from January to June, 1928, against 75,201,019 yen in 1927 and 72,175,970 yen in 1926. These statistics apply to Japan proper, and do not include the foreign trade of Formosa and Korea. The following are items of pharmaceutical interest from the report:—

EXPORTS

Article	Jan.-June 1926	Jan.-June 1927	Jan.-June 1928
Soya beans .. piculs	20,269	22,981	23,502
Ground nuts .. "	1,999	1,037	4,025
Rape and mustard seeds .. "	4,689	8,224	122
Linseed .. "	500	9	—
Cuttlefish bone .. "	140,510	55,952	57,784
Agar-agar .. kin	1,158,304	1,324,215	1,703,400
Soy .. koku	7,859	7,540	11,262
Linseed oil .. piculs	1,346	1,226	1,322
Coconut oil .. "	293	369	186
Groundnut oil .. "	66,416	67,762	74,014
Colza oil .. "	65,197	100,980	27,701
Cottonseed oil .. "	2,914	896	1,865
Camphor oil .. "	15,786	12,034	13,135
Peppermint oil .. "	3,104	2,280	2,571
Fish and whale oils .. "	72,055	202,829	205,464
Vegetable wax .. "	16,567	28,234	20,466
Soap, toilet .. doz.	1,043,260	816,464	1,264,921
Soap, other .. kin	311,805	91,080	302,764
Toilet cream .. yen	194,357	96,089	107,787
Perfumed water and hair oil .. doz.	194,618	185,779	284,300
Ginseng .. piculs	434	439	232
Insect flowers .. "	22,401	36,098	50,347
Insect powder .. "	2,821	5,264	5,936
Glue .. "	9,508	9,264	10,318
Sulphur .. "	23,241	23,103	47,927
Iodine .. kin	20,823	11,705	33,307
Acetic acid .. piculs	662	430	357
Sulphuric acid .. "	46,547	58,371	59,585
Nitric acid .. "	15,749	20,981	17,133
Arsenic .. kin	—	—	1,658,542
Sodium sulphide piculs	40,088	54,527	46,935
Potassium iodide .. "	18,239	1,728	2,702
Potassium chlorate .. "	5,879	2,228	334
Bleaching powder .. "	31,605	24,958	33,879
Calcium carbide .. "	13,113	19,067	23,543
Camphor .. "	11,594	18,382	17,957
Menthol .. "	3,268	2,111	1,814
Tooth powders and pastes .. yen	370,919	334,605	429,705
Toilet powders and pastes .. "	177,602	122,781	148,510
Other perfumery .. "	457,588	398,639	179,808
Gauze, wadding and bandages .. "	253,572	215,160	323,237
All other drugs, chemicals and medicines value in 1,000 yen	3,245	3,017	3,187
Prepared medicines value in 1,000 yen	745	634	840
Coal tar dyes .. kin	398,467	221,970	906,504
Metal powders .. "	108,892	81,967	154,420
Lead, red .. "	893,194	595,764	958,257
Inks .. "	524,312	537,400	813,142
Paints .. "	1,145,350	945,796	1,213,652
Celluloid combs gross	49,681	44,195	74,526
Vacuum flasks .. doz.	94,746	100,511	123,298
Other glass bottles 1,000 doz.	5,617	7,572	7,717
Manganese ore .. piculs	13,040	12,442	10,485
Antimony ore .. "	1,037	833	1,464
Surgical instruments and parts value in 1,000 yen	236	192	276
Physical and chemical instruments and parts value in 1,000 yen	163	179	375

EXPORTS—contd.

Article	Jan.-June 1926	Jan.-June 1927	Jan.-June 1928
Other scientific instruments and parts value in 1,000 yen	323	372	491
Hair brushes .. doz.	196,792	163,604	31,917
Nail brushes .. "	88,326	134,954	55,061
Tooth brushes .. "	2,050,428	1,846,545	2,056,751
Cloth brushes .. "	52,357	26,938	38,527
Artificial manure piculs	229	2,494	28,808

IMPORTS

Article	Jan.-June 1926	Jan.-June 1927	Jan.-June 1928
Seeds—			
Soya beans .. piculs	4,281,708	4,470,532	4,972,257
Ground nuts .. "	91,224	105,316	99,723
Sesame .. "	132,329	139,685	198,716
Rape and mustard seed .. "	524,555	380,689	126,670
Linseed .. "	63,194	61,607	142,050
Hemp seed .. "	255,518	211,440	185,241
Castor seed .. "	103,749	91,319	131,790
Cotton seed .. "	593,239	557,045	590,387
Tonic foods .. kin	157,021	151,993	191,614
Salt .. piculs	1,371,976	1,309,313	1,709,568
Essential oils .. kin	337,093	291,022	262,565
Turpentine .. litres	200,393	243,010	159,751
Oils, fats, etc.—			
Castor oil .. kin	19,858	968,395	3,712
Olive oil .. yen	85,265	58,119	94,604
Cotton seed oil .. kin	271,765	378,956	359,555
Stearin .. "	184,551	191,632	240,085
Olein .. "	316,131	722,895	230,350
Paraffin wax (m.p. below 45 deg. C.) .. piculs	23,669	25,493	25,266
Paraffin wax (other) .. "	122,923	126,935	131,485
Soaps .. yen	86,275	86,750	98,341
Oils, fats, waxes, perfumed and preps. .. kin	50,455	54,739	77,288
Perfumed waters .. "	40,792	34,251	48,696
Vaseline .. "	539,628	479,549	534,104
Drugs, etc.—			
Hops .. kin	451,187	661,857	661,932
Liquorice .. "	8,941	9,255	1,307,847
Cinchona .. "	434,073	510,953	287,006
Gum acacia .. "	716,757	460,452	826,326
Shellac .. "	804,900	477,016	1,151,304
Resin .. piculs	142,727	124,748	124,902
Other gums and gum resins .. kin	1,974,299	1,514,988	2,114,082
Glue .. "	1,028,548	995,534	799,406
Gelatin .. "	117,304	121,967	83,415
Opium .. "	17,102	4,508	8,677
Chemicals—			
Boric acid .. kin	974,844	533,405	879,652
Tartaric acid .. "	204,576	243,954	464,927
Salicylic acid .. "	248,482	126,341	243,433
Aspirin .. "	83,385	206,254	116,702
Carbolic acid .. "	976,499	721,451	557,074
Citric acid .. "	109,598	75,740	85,399
Caustic soda, crude .. piculs	345,585	375,911	575,427
Soda ash and natural soda .. "	228,075	855,556	759,243
Sodium bicarbonate .. kin	5,858,190	5,759,957	6,547,635
Sodium nitrate, crude .. piculs	655,163	513,787	596,682
Sodium borate .. kin	3,760,940	2,834,355	3,625,691
Sodium and pot. cyanides .. "	338,643	427,044	575,794
Sodium bichromate .. "	1,174,746	643,844	1,239,887
Potassium chloride, crude .. "	5,415,449	12,723,515	26,174,070
Potassium sulphate, crude .. "	32,976,875	37,190,734	45,500,702
Potassium chlorate .. "	4,247,892	2,617,882	3,514,212
Potassium bichromate .. "	471,397	364,463	320,620
Ammonium chloride, crude .. "	2,417,830	1,544,343	2,494,054
Ammonium sulphate, crude piculs	2,839,479	2,340,584	2,971,887

IMPORTS—contd.

Article	Jan.-June 1926	Jan.-June 1927	Jan.-June 1928
Chemicals—contd.:			
Calcium car- bonate .. kin	273,647	582,736	346,811
Calcium acetate piculs	48,392	55,590	78,421
Formalin .. kin	1,255,903	1,603,081	397,917
Methyl alcohol ..	542,528	813,535	1,251,038
Glycerin .. kin	1,079,370	1,620,135	1,968,320
Milk sugar ..	189,585	287,214	221,790
Naphthalene ..	1,387,839	1,659,488	489,467
Aniline ..	821,568	368,428	25
Other chemical products from coal tar .. yen	867,118	979,188	1,241,016
Antipyrin .. kin	18,270	22,093	43,691
Pyramidon ..	—	44,206	36,667
Quinine, hydro- chlor. and sulph. .. grams	3,729,839	2,868,500	3,838,620
*Morphine, hy- drochlor. and sulph. ..	—	—	—
*Cocaine hydro- chlor. and sulph. ..	—	—	—
*Diacetylmorph. hydrochlor. .. kin	—	—	—
Casein ..	—	1,582,709	1,037,122
Alcoholic medi- cal preps. .. litres	68,564	53,119	84,541
Aromatic chemi- cals .. yen	69,166	52,165	60,897
All other chemical drugs ..	8,546,184	4,690,341	4,975,063
All other com- pounds of above drugs, etc. ..	1,183,545	1,382,934	1,539,497
Tooth powders and other pre- pared perfumes ..	235,167	179,641	254,144
Logwood extract .. kin	480,457	404,901	732,773
Indigo, artificial ..	926,157	1,014,377	786,718
Other synthetic dyes ..	2,647,756	2,133,445	2,398,446
Cobalt oxide ..	42,515	53,535	39,696
Goat's and camel's hair ..	119,767	110,533	193,655
Photographic papers ..	289,397	329,576	381,756
Talc and soap- stone .. piculs	236,202	194,201	249,949
Mercury .. kin	363,130	250,243	462,491
Antimony .. piculs	12,386	14,737	18,234
Microscopes and parts .. yen	372,812	263,521	125,585
Surgical instruments ..	477,341	366,317	194,446
Physical and chemical in- struments ..	983,437	921,811	800,496
Photographic in- struments ..	130,758	184,067	382,091
Other scientific instruments ..	371,823	472,727	526,749
Photographic films, sensitised .. kin	217,659	75,927	103,045
Photographic films, other ..	19,804	511	1,188
Cork bark ..	2,704,041	3,188,675	4,234,106

Picul, 133½ lb. Kin, 1½ lb. Yen, 2s. (nominal).

Koku, 39.6 imperial gallons.

* No figures published.

makes, how best to reach them, what sort of publicity would pay best, etc. Above all, he should appoint a sound and reliable agent. It would pay a manufacturer well to spend a matter of £250 and a month or so in the country and to study the market on the spot. This should save him from many pitfalls, and not a few bad debts. Egypt is only four days from London, and such a trip should not be regarded as unnecessary expenditure. At present the drug trade in Egypt is in a bad condition. There is one chain of drug store with branches in the principal towns. Most of the other drug stores and pharmacies are under individual ownership. There is no association of chemists and druggists with any control over members. Price-cutting is therefore the order of the day, and it is even a matter of doubt if some manufacturers know who is really acting as their agent. Arrangements are in force between certain firms whereby agency commissions are shared and distribution done by someone other than the appointed agent. In this matter the manufacturer cannot be too careful. British agencies seem to be too easily given to Levantines who have glib English and are very free with promises and verbal guarantees to increase sales. Later, changes have to be made, and for a year or two the market is spoiled by the late agent for the product he has lost.

Menthol from Mexico

By E. M. Holmes, F.L.S., Emeritus Curator,
Pharmaceutical Society of Great Britain

My attention has been directed by the Editor to the efforts being made by the Department of Industry, Commerce and Labour, in Mexico, to encourage the exploitation of a plant known as tabaquinillo, but botanically termed *Hedeoma piperita*, Benth., which grows wild in Mexico in large quantities. Experiments conducted by this Department indicate that in view of the wide range of uses of menthol, the cultivation of the plant may be utilised to develop into an important industry. The use of the name tabaquinillo may, however, prove misleading, as there are no less than six plants to which the name is applied in Mexico. These are *Calamintha macrostema*, Benth. (N.O. *Labiatae*), *Hydrolea spinosa*, L. (N.O. *Hydrophyllaceae*), *Nicotiana glauca*, Grah., and *Nicotiana glumbaginifolia*, Vir. (N.O. *Solanaceae*). The name "Tabaquinillo oloroso" is applied to *Petunia nyctaginiflora*, Juss. (N.O. *Solanaceae*), and also the *Ybedeoma piperita*, Benth. (N.O. *Labiatae*). The tabaquinillo that has been experimented with by the Department is therefore to be distinguished from the other plant as tabaquinillo oloroso but not to be confounded with *Petunia nyctaginiflora*, which also bears the name of tabaquinillo oloroso. In the "Datos de la Materia Medica Mexicana" (part IV, 1907, p. 357), tabaquinillo is identified as *Calamintha macrostema*, Benth. (N.O. *Labiatae*), which also bears the name of *Jé del monte*. This species would therefore appear to be accepted as Taranquinillo by Mexican authorities, or materia medica, as the Datos are published by the Secretaria de Fomento at Mexico. The information given in this work may be worth recording as the work is difficult to obtain in this country. *Calamintha macrostema*, Benth., is described as commonly used to relieve gastric intestinal complaints, but is also used to make a tea-like beverage. So far as has been learnt from analysis the plant yields a large quantity of essential oil that can be used as a substitute for peppermint oil. The dilute solution of the oil produces anaesthesia of the extremities of the sensory nerves, and in large doses causes narcotic phenomena, paralysing fatally frogs and pigeons. It is employed medicinally for allaying the pain of gastralgia, and to improve peristaltic action, and is considered a good stomachic in slow, painful digestion. The aqueous infusion is made of five to ten per cent. of water, and of the alcoholic tincture the dose is 40 to 50 drops. It is evident that further investigation of the two plants *Calamintha macrostema*, Benth., and *Hedeoma piperita*, Berth., both known as tabaquinillo, is desirable, as it is quite likely that, although both may contain menthol, the other constituents of the volatile oil present in each may be different.

The Egyptian Drug Trade

DURING the past two or three years the drug trade in Egypt, so far as it concerns the manufacturer and merchant in England, has become more unsatisfactory than ever. The competition between pharmacists and drug stores has been so keen since the war that proprietary lines are often sold retail at little or no profit in order to gain or to keep a customer. The manufacturer should investigate and find to what extent the Egyptian market is valuable to him. He should endeavour to find out what proportion of the 14,000,000 inhabitants are potential customers for the article he

Merchandise Marks Act Inquiry

IMPORTED RUBBER GOODS

(Continued from C. & D., November 17, p. 611.)

In answer to further questions, Mr. PERCY reiterated that the purchase of supplies of surgical rubber goods for large institutions and Government Departments is too often decided upon price. If the goods came in at something like a reasonable figure the British makers could compete, but at the present time, quality for quality, it was impossible to do so. Continuing, in answer to further questions, Mr. Percy expressed the view that the marking should be such that when one doctor took the place of another in a hospital, for example, he should be able to see from the marking on the apparatus that it was foreign.

Mr. MACASKIE: You want the marking to be visible not only to the person who first buys the goods, but any other person who might use them months afterwards.

Mr. PERCY: Undoubtedly.

Mr. MACASKIE: Your interpretation of the Act is that the marking should be permanent, so that in the case of a hospital if one doctor follows another he should be able to tell that the goods are foreign. Is that your interpretation of the Act?

Mr. PERCY: Yes, and I think it is a very good interpretation.

In reply to Mr. Bray, Mr. PERCY said that he himself had only come across one public tender form which stipulated that the goods should be British.

Mr. BRAY: If the others had a preference for British goods they would express it on their forms?

Mr. PERCY said he presumed that would be the case, but the public needed educating in the matter of using British goods, and too often at present bought foreign goods thinking they were British.

The inquiry was adjourned until November 13, when further evidence was given by witnesses for the applicants.

A variety of goods were dealt with by Mr. W. E. J. Sharp (buyer for the Reliance Rubber Co.), who, speaking of the marketing of foreign goods, pointed out that in some cases the identity of the goods was lost owing to the fact that they were taken out of the wrappers. He agreed that it was practically impossible for the average wholesaler to determine whether the articles offered to him were British or foreign.

The remainder of the evidence concerned mainly the heavier classes of goods. A catalogue of a British firm whose works were in Germany was produced by Mr. D. D. Cushman (manager of the mechanical department of D. Moseley & Sons, Ltd.), to show that it contained no indication of the fact that they were manufactured abroad. At the same time, it was not suggested that this constituted misrepresentation or any evasion of the existing law. Witness admitted that he himself knew the origin of the goods made by that firm, as would also the factors, but he could not speak for other members of the trade.

The evidence for the applicants was concluded, and the inquiry was adjourned until Monday, November 19, when evidence on behalf of the objectors to the application was given. One of the witnesses was Mr. J. J. GILLAN, of the Dominion Rubber Co., Ltd., an English subsidiary of the United States Rubber Export Co., and the Dominion Rubber Co., of Montreal, and part of his evidence related to goods dealt with by chemists. Bathing caps were mentioned, and he objected to the conspicuous marking of these, and of other articles of an ornamental character on the outside, on the ground that their appearance would be spoiled. His company marked bathing caps on the inside. With regard to rubber corks, he would not say that the marking of a cork would serve to brand the bottle in which it was used, and the contents of the bottle, as foreign. In any case, corks in bottles sold by chemists were usually covered by the medical-stamp duty wrapper, or by a covering bearing the name of the chemist, so that a buyer would not see a mark on a cork at the time of

purchase. (The applicants agreed that the origin of corks need be indicated only on the containers in which the corks were sold).

In cross-examination, witness was asked if rubber gloves would be defaced by marks on the outside, but he replied that his own Company marked them in that way.

Another witness was Mr. F. C. TICHY (of H. C. S. Hicks & Co., importers, of Edmund Place, Aldersgate Street, London, E.C.1.). He dealt with a variety of articles, including rubber gloves, and he held that a mark on the back of each glove would seriously disfigure them and prejudice the sale. The marking of household aprons, baby knickers, bibs, etc., if applied to the rubber itself, would disfigure the articles and prejudice sales. Apart from that, however, the exposure for sale of such articles, without wrapping, was impracticable, because exposure to the air and light had an injurious effect upon the material and colour. Similar arguments applied to bathing caps made from calendered sheet rubber, and he held that the marking of the boxes or containers should suffice.

The inquiry was adjourned until Tuesday.

MARKING VULCANITE COMBS

Mr. G. H. ALMENRADER (of Messrs. T. C. Murphy & Co., Ltd., ebonite merchants and factors, of Manchester Avenue, London) gave evidence with regard to vulcanite combs. The marking in contrasting colours, as proposed by the applicants, he said, would prohibit the sale of the better class combs, because a comb selling at much above sixpence must be plain; the very cheap vulcanite combs, selling at less than sixpence, might be accepted even if marked, but their sale would be restricted. The tendency, therefore, would be to give a monopoly to the North British Rubber Co., who were said to be the only manufacturers of vulcanite combs in this country. Another serious objection to the marking of vulcanite combs was that it would result in unfair differentiation between those combs and imported combs of other materials. About fifteen, or at the utmost 20 per cent. of imported combs were made of vulcanite, the remaining 80 or 85 per cent. being made of fancy and coloured materials, such as celluloid, etc., which would be outside the scope of the marking Order now proposed. He would prefer that there should be a general inquiry into the comb manufacturing trade rather than that attention should be confined to one class of comb only. He agreed that during the last few years it had been the general practice to mark British-made combs. The cost of the black line marking of vulcanite combs would be about 4d. per gross, but marking in contrasting colours would cost 1s. per gross, or even 2s. per gross, if a good, bold and effective stamp were applied.

He agreed that it was difficult to decide the origin of combs if unmarked, but he would be prepared to stamp the boxes, and also the paper wrappers or envelopes in which some of the combs were sold. The affixing of an adhesive label to each comb he did not regard as practicable, because such a label would become rubbed off and lost in the course of time. A tie-on label could be attached to combs not sold in paper wrappers or envelopes.

With regard to examination by the Customs officers, he produced combs made of celluloid, vulcanite and gallalith, and pointed out that Customs officers could not distinguish between them by looking at them. There were tests which could be applied, but the application of such tests would result in delays at the ports. The materials of which the combs were made, however, might be stated on the invoices.

It was pointed out by Mr. J. R. Jones (counsel for the applicants), in the course of cross-examination, that combs were not usually exposed for sale in boxes. Witness replied, amid laughter, that if the boxes were artistic the retailer might like to show them.

Replying to Mr. G. N. Barnes (a member of the Committee), witness said that probably some thousands of workers were employed in the manufacture of combs of various materials in this country.

(To be continued.)

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42, Cannon Street, E.C.4, November 22

AMONG pharmaceutical chemicals the chief alteration in prices is a reduction of 3d. per lb. in citrates by the makers, following on the lower prices for citric acid. Piperazine, aloin and pilocarpine salts are higher. The prices of a number of products have now been cut to below pre-war in several instances, and are tending to a point at which they cease to interest dealers. It is therefore possible that steps may be taken to bring about a more remunerative level of values in certain items which have been subject to fierce competition. In crude drugs, balsam tolu has slightly advanced on scarcity. New crop saffron is cheaper to buy. Senega is firm and wild cherry bark dearer. Carnauba wax is firm on spot and easier forward. Ipecacuanha is selling more freely at firmer prices for Matto Grosso. Tragacanth is steady and in fairly active demand. There have been a number of small price movements in essential oils, but business is still dull. Wormwood is much higher, anise, lime and Sicilian orange firmer. Japanese demethylised peppermint, spearmint, California orange and wormseed easier, and cedarleaf lower. In the industrial chemicals group the bulk of the orders continue to be limited in size, and there are no material price changes beyond a further advance in barium chloride on very short supplies. Foreign cream of tartar is irregular. Among coal-tar and allied products carbolic acid crystals continue very firm and pitch shows a recovery. In the vegetable oils group, coconut oils are firm and palm oils steadier. Turpentine has fluctuated, but closes about unchanged on the week after almost daily fluctuations; linseed oil has been irregular, with a slight improvement on balance; castor is dull and unchanged.

Higher	Firmer	Easier	Lower
Aloin Barium chloride Pilocarpine Piperazine Pitch Shellac Wild cherry bark Wormwood oil	Anise oil Ipecacuanha Lime oil Linseed oil Orange oil Soya oil Steadier Palm oils	Maize starch powder (Dutch) Menthol Orange oil (Calif.) Peppermint oil (Jp.) Rape oil Spearmint oil Wormseed oil	Cedarleaf oil Ferri ammon. cit. Ferri quin. cit. Magnes. oxide (heavy pure) Pepper Potash citrate Saffron Sodium citrate Spartein sulphate

The final drug auction of the year will be held next Thursday, November 29.

Crude Drugs, etc.

ANTIMONY.—Trade demand is still quiet, but there are no pressing offers of Chinese regulus, which is well held on the spot at £40 per ton ex warehouse. Terms for shipment are £37 to £37 10s. c.i.f. Quotations for English refined vary from £56 up to £60, according to brand. English white oxide is obtainable down to about £65 10s. for fair lots.

BALSAM TOLU is obtainable at 3s. 10½d. per lb. for good hard on the spot.

CADMIUM.—The recent advance has been fully maintained, spot prices ranging from 4s. 8d. per lb. upwards, and there is some difficulty in meeting the active demand for ready delivery. The outlook certainly does not favour easier conditions, although terms for forward shipments are being entertained at a discount of about 5d. per lb. on spot value. There have been more important arrivals lately from Australia, and good-sized quantities also came in from Scandinavia and North America.

CAMPOR (REFINED).—Japanese slabs are quoted at 2s. 3d. per lb. on the spot, and for November-December shipment 2s. 3d. c.i.f. is quoted; ¼-oz. tablets are scarce at 3s. on the spot.

CINCHONA.—An auction of Java pharmaceutical bark, amounting to 1,044 packages, weighing 50,505 kilos., will be held at Amsterdam on Wednesday, December 5.

CLOVES.—Zanzibar are easier, with spot sales at from 1s. 3¼d. to 1s. 3½d. per lb. For shipment October-December is quoted at 1s. 3d., and December-February shipment has been sold at 1s. 3d. per lb. c.i.f. Afloat has been done at 1s. 2½d. c.i.f. The landings at Zanzibar in London during the week ending November 17 were 150, and the deliveries 513, leaving a stock of 3,023, against 9,743 in 1927 and 8,181 in 1926. From January 1 to November 17, 1923, the landings of Zanzibar have been 13,736, against 16,265 in 1927, and the deliveries 18,339 against 14,123 in 1927. The landings of Madagascar during the week ending November 17 were nil, and the deliveries 435, leaving a stock of 1,623 bales. The landings to date have been 1,281 and the deliveries 1,353.

The exports of cloves from Zanzibar from January to July, 1928, amounted to 117,980 cwt., against 156,684 cwt. for 1927.

CORN PRODUCTS, ETC.—Guaranteed water-white American glucose (corn syrup) is 22s. per cwt. for November-December delivery, ex store London, and Continental for shipment 21s. 6d. c.i.f. U.K. Dutch maize starch powder (cornflour) is 15s. 3d. per cwt. on the spot. American is 15s. 9d. per cwt., ex store London, for November-December delivery. Pearl starch is 15s. 3d. for November-December, ex store, London. Dutch maize starch crystals is 21s. on the spot, and American is 20s., ex store London, for November-December delivery. Dutch dextrin is quoted at 22s. to 26s. per cwt. on the spot as to quality. American canary for November delivery is 19s. 1½d., and December 18s. 7½d. White for November delivery is 18s. 10½d., and December 18s. 4½d., ex store London. Dutch farina is quoted at 12s. 6d. per cwt. on the spot, and to arrive 11s. 10½d. f.o.b. is quoted.

GINGER.—West African on the spot is quoted at 53s., and to arrive 52s. 6d. per cwt. c.i.f. is quoted.

IPECACUANHA.—A fair quantity of Matto Grosso has changed hands and 10s. 6d. per lb. is now quoted for good plump root.

KOLA.—Fair West Indian are offered at 6½d. per lb. on the spot. Supplies are now more plentiful.

MAGNESIUM is firm, there being steady business doing by home makers on the basis of about 3s. 3d. up to 3s. 9d. per lb., according to specification of ingots, small sticks or bars. Terms for powder are widely divergent, according to quality and quantity, ranging from about 4s. 6d. up to 7s. per lb.

MENTHOL is easier at from 22s. 3d. to 22s. 6d. per lb. on the spot for Kobayashi-Suzuki. For October-December shipment business was recently done at 21s. 3d. c.i.f., sellers quoting 21s. 6d. c.i.f.

MERCURY is materially unchanged. A steady demand has been reported for export from the Far East, also the Continent and the United States, and we have heard of several hundred bottles being booked this week. Spot supplies here, although of very liberal extent, are well held at £22 5s. to £22 15s. per bottle, partly due to the expectation of reduced shipments over the end of the year. The first-hand f.o.b. price remains at £21 15s., as quoted by the central selling office of the Combine. The market in America is reported fairly active, and the price secured by the domestic mines is said to be \$122 per bottle, compared with \$125, duty paid, quoted for imported material.

PEPPER has been dull and easier. Fair black Singapore on the spot 1s. 5d. For August-October shipment, 1s. 3½d. c.i.f. is quoted; Lampong on the spot is 1s. 5d. For shipment August-October has been sold at 1s. 4½d. to 1s. 4¼d.; October-December sold at 1s. 3¼d. to 1s. 3d.; fair Tellicherry spot, 1s. 6½d.; January-March, 129s. c.i.f.; Aleppy spot 1s. 6d., and January-March 128s. c.i.f.; white Muntok on the spot 2s.; for shipment August-October has been sold at 1s. 10½d. to 1s. 10¼d. to 1s. 10d.; October-December sold at 1s. 9½d. to 1s. 8¾d. to 1s. 9d. c.i.f.

An ordinance effective from October 1, 1928, prohibits the exportation from the Dutch East Indies of Lampong pepper with more than 2 per cent. dust content.

RUBBER continues fairly steady, and there is a fractional improvement on the week. It would appear that the recent weakness has been accentuated by the changed policy of certain big estates in selling rubber for delivery as far ahead as 1930. This policy has given rise to partial weakness in certain quarters, but on the whole the market is almost unaffected. Now that the market knows the approximate quantities to be shipped from Malaya during the present month, there seems more inclination to trade. It is possible that further weakness may set in, but in well-informed quarters there seems little possibility of the market declining below 8d. per lb., at which price a strong support may be expected. Arrivals last week totalled 974 tons, whilst deliveries amounted to 2,274 tons, showing a further decrease in the stocks of 1,300 tons on the week. The London stock now stands at 20,194 tons, against 69,850 tons at the corresponding period last year. Quotation (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and

November, 8½d.; December, 8½d.; January-March, 8½d.; April-June, 9d. per lb.

SAFFRON is cheaper, the range of prices for Valencia being from 40s. to 45s. per lb. c.i.f. for new crop to arrive in December.

SEEDS.—The market remains generally quiet and prices of most articles have an upward tendency. ANISE.—Spanish, 62s. 6d., and Russian 23s. per cwt. CANARY continues firm but quiet. Mazagan is 19s. 9d. spot, and forward shipment is quoted at 20s. c.i.f. CUMIN.—Maltese is 54s. spot and 47s. c.i.f. is quoted forward; Morocco is 42s. spot and 41s. c.i.f. for November-December. CORIANDER.—Morocco is 20s. 6d. spot and 17s. c.i.f. for November-December shipment; Russian is 19s. 6d. spot. FENUGREEK.—Morocco is scarce on the spot, and 16s. 9d. to 17s. c.i.f. is quoted for forward shipment. HEMP.—Manchurian is 20s. and Chilian 21s. 3d. LINSEED.—Mazagan is 20s. spot and 19s. 3d. c.i.f. for November-December, and Morocco 18s. 3d. c.i.f. MUSTARD.—English remains at 30s. to 32s. 6d. FENNEL.—Indian is 72s. 6d. spot and 60s. c.i.f.

SENEGA.—The asking price is now 5s. 3d. per lb. on the spot. SHELLAC is dearer, the spot price of usual standard TN orange closing at 215s. per cwt.; fine orange is 220s. to 320s.; pure button 245s., and AC cakey 225s. Sales to arrive include TN for November-December and December-January shipment at 202s. 6d. per cwt. c.i.f. TN for December delivery has been sold at 205s. to 210s., and March at 203s. to 207s.

STROPHANTHUS.—Genuine is in small supply, offering at 6s. 3d. per lb. for guaranteed 100 per cent. Kombe.

TRAGACANTH continues active and prices remain very steady; grades in demand are principally for good clear Persian leaf at from £9 to £15 per cwt., which still remains scarce. Several orders have been received for this quality, but have had to be declined in the absence of stock. Good pale No. 1 ribbon is £29 to £30 per cwt.

VANILLA.—At auction on Wednesday, 419 tins offered and about 260 tins sold at a reduction of 1s. to 2s. per lb. for firsts, common grades being unchanged. Of 251 tins Seychelles offered 221 sold, comprising, fair to good firsts, 7 to 8½ in., 6s. to 7s. 3d.; 3½ to 7 in., 4s. to 6s. 6d.; good seconds lean, 6½ to 7 in., 5s. to 5s. 3d., 4 to 6 in. 4s. to 4s. 9d.; mouldy, 1s. 6d. to 3s. 6d.; fair to good split, 4s. 3d. to 6s.; foxy and split, 3s. to 3s. 9d. Of 18 tins Ceylon 12 sold at 3s. 6d. to 4s. for foxy and split; of 18 tins Madagascar, 10 sold at 5s. 6d. for 6 to 7 in., and 4s. 6d. to 5s. for 5 to 6 in.; of 131 tins Java, 3 sold at 3s. 6d. for foxy 5 to 6 in., and mouldy at 1s. 6d. to 2s. 6d. per lb.

WAX (CARNAUBA).—Spot is scarce and firmly held and forward shipment prices are easier. Fatty grey, 120s. spot and 111s. c.i.f.; chalky grey, 125s. spot and 115s. c.i.f.; Primeira, 210s. spot and 175s. c.i.f.; Mediana 190s. spot and 165s. c.i.f.

WAX (VEGETABLE).—Japanese in single cases is offered at 87s. 6d. per cwt. on the spot, and to arrive 83s. c.i.f. is quoted.

WILD CHERRY BARK is scarce and higher to come forward as quoted at 6d. per lb. c.i.f. for thin natural and 6½d. c.i.f. for thin green.

Essential Oils

BUSINESS is quiet again, and the excitement over lemon oil has almost subsided. Wormwood is dearer at a record figure, with anise, lime and Sicilian orange firmer. Japanese dementholised peppermint, spearmint and wormseed are on the easy side, cedarleaf being lower to come forward.

ANISE (STAR).—"Red Ship" is very firm and the spot shortage of leads has definitely raised the price to 2s. 7d. per lb., with some holders asking 2s. 8d. Tins have been sold on the spot at 2s. 4d. and drums at 2s. 2d. per lb. Shipment values vary considerably, leads ranging from 2s. 2½d. to 2s. 4d. per lb. c.i.f. and drums are quoted between 2s. 1d. and 2s. 2½d. c.i.f.

BAY is firm and scarce at 7s. 3d. per lb. on the spot for 50-55 per cent. phenols.

BERGAMOT is firm at 22s. to 22s. 3d. per lb. c.i.f. and about 22s. 6d. per lb. on the spot for 37-38 l.a.

CAJUPUT is steady at 3s. 1d. per lb. on the spot.

CANANGA is barely steady at 11s. per lb. on the spot.

CASSIA is devoid of interest at 5s. 9d. per lb. on the spot and 5s. c.i.f. for 80-85 per cent. c.a.

CEDARLEAF is easier for shipment at 5s. per lb. c.i.f., with the spot price a matter of negotiation owing to scarcity.

CEDARWOOD is dull on spot at 1s. 3d. per lb. in drums and 1s 4½d. in cases.

CINNAMON LEAF is still scarce, and 6s. 3d. per lb. is quoted on the spot. Afloat is given as 5s. 9d. per lb. c.i.f. and there are no offers for shipment.

CITRONELLA.—Ceylon is unchanged at 1s. 8d. per lb. on the spot and 1s. 7d. c.i.f. Java is worth 2s. per lb. on the spot and 1s. 11d. c.i.f.

CLOVE is maintained at 8s. 9d. per lb. for English distilled

GERANIUM is neglected and a shade easier at just under 20s. per lb. on the spot and 19s. 6d. c.i.f. for Bourbon. Algerian is worth 16s. 9d. to 17s. per lb. on the spot, according to quantity.

GINGERGRASS is in more inquiry, and a little business has been done at 9s. 6d. per lb. on the spot. For shipment 8s. 6d. c.i.f. is quoted, and a buyer at 8s. c.i.f. is reported to have been refused.

LEMON.—It is now announced that the eruption at Mount Etna has had very little effect on areas cultivated, but estimates of the shortage suffice to keep the value firm. The latest reports predict a deficit of 100,000 lb. against last year's production. The spot value ranges from 14s. to 15s. 6d. per lb. as to seller, and forward quotations for prompt shipment are equally divergent at 14s. to 15s. 2d. per lb. c.i.f. New crop is quoted from 13s. 9d. to 14s. 3d. per lb. c.i.f. Californian on spot is given at 11s. per lb., with the "special" quality about 1s. per lb. cheaper.

LEMONGRASS at 3s. per lb. on the spot and 2s. 11d. c.i.f. is more steady than of late.

LIME.—West Indian distilled is a shade firmer at 29s. to 29s. 6d. per lb. on the spot as to quantity.

ORANGE.—Sicilian sweet is firmer, and an order sent out on a basis of 17s. per lb. c.i.f. was returned with a quotation of 18s. 9d. c.i.f. This is, however, rather higher than the general quotation of 17s. 6d. per lb. c.i.f. The spot value ranges from 17s. 6d. to 19s. per lb. West Indian is quoted at 15s. per lb. on the spot. Californian spot is easier at 15s. 9d. per lb.

PALMAROSA is in poor demand at 13s. per lb. on the spot and 12s. c.i.f.

PEPPERMINT.—American natural tin oil for prompt shipment is quoted from 13s. 9d. to 14s. 6d. per lb. c.i.f. as to brand. On spot from 14s. 3d. to 14s. 6d. has been paid. H.G.H. is unchanged at 18s. per lb. on the spot and 18s. c.i.f. Japanese dementholised is easier for October-December shipment at 7s. 1½d. per lb. c.i.f., and 7s. per lb. c.i.f. for January-March shipment, for Kobayashi-Suzuki. The spot value is about 7s. 9d. per lb. A fair amount of covering business was done earlier in the week at higher rates.

A report from the Government Farm Products Inspection Bureau, Hokkaido, Japan, dated October 25, gives the following final crop estimates of crude peppermint oil for that province:—

	1926	1927	1928
Acreage	27,730	33,435	31,934
Production (lb.) ..	613,317	1,026,323	689,324
= Cases of 60 lb. ..	10,222	17,105	11,488

SAFFAERAS.—Natural American is on the easy side at 3s. 4d. per lb. c.i.f. and 3s. 9d. on the spot.

SPEARMINT on the spot is easier at 19s. per lb.

WORMSEED (CHENOPODIUM) is easier on the spot at 10s. 6d. per lb., and 9s. c.i.f. is quoted for shipment.

WORMWOOD.—A "record" price of 90s. per lb. c.i.f. is quoted at the source and spot supplies are still bare.

The following arrivals have taken place from the countries indicated during the period November 14 to November 20 (inclusive): Almond (Fr.), 1 cs.; amyris (U.S.), 4 cs.; anise (Fr.) 31 cs., (Ch.) 10 cs. 5 dm.; bay (B.W.I.), 10 cs.; bergamot (It.), 40 cs.; cajuput (Jv.), 10 cs.; camphor (Jp.), 17 dm.; citronella (Pan.) 1 dm., (Jv.) 8 dm.; clove (Madag.), 2 dm.; eucalyptus (Aust.), 9 cs.; lavender (Fr.), 7 dm.; lemon (It.), 67 cs.; lime (B.W.I.), 15 cs. 1 dm.; orange (It.) 112 cs., (U.S.) 4 dm.; patchouli (Strs.), 1 cs.; peppermint (Jp.) 50 cs., (U.S.) 12 cs. 1 dm.; rosewood (Fr.) 2 dm. 3 cs.; sassafras (U.S.), 2 cs.; thyme (Sp.), 20 cs.; wintergreen (Ger.), 4 cs.; wormwood (U.S.), 1 cs.; undescribed (Fr.), 2 cs.

Pharmaceutical Chemicals, etc.

THERE is no change of importance to record this week. The spot position of citric acid is still undefined, and is likely to remain so as long as the Italian makers' quotations for forward delivery are uncertain. Citrates have been reduced by 3d. per lb.

ACETANILIDE continues to be quoted on spot from 1s. 4½d. to 1s. 6d. per lb. for B.P. crystals and powder.

ALOI is dearer, makers quoting 7s. per lb.

AMIDOPYRIN remains dull at about 7s. 9d. to 8s. per lb.

ASPIRIN is unchanged as quoted from 2s. 3d. to 2s. 6d. per lb., as to quantity; business has continued on modest lines.

BENZONAPHTHOL is quiet: five-kilo. parcels offered on spot at 2s. 10d. per lb.

BISMUTH SALTS.—Controlled prices are unchanged: carbonate, 9s. 9d.; subnitrate, 8s. 3d.; salicylate, 8s. 9d. per lb., in cwt. lots.

BROMIDES.—There is nothing of interest to report and business has been slight; dealers quote: ammonium, 1s. 11d.; potassium, B.P., crystals 1s. 7½d.; granular, 1s. 7d.; sodium, B.P., 1s. 10d. per lb. for quantities in cases, ex store. British makers' list prices are unaltered: ammonium, 2s. to 2s. 3d.; potassium, B.P., 1s. 8½d. to

ls. 11½d.; sodium, B.P., ls. 11d. to 2s. 2d. per lb., as to quantity.

CALCIUM LACTATE is steady, but business is not of much account: quoted from ls. 2½d. to ls. 3½d. per lb., as to quantity.

CHLORAL HYDRATE has remained steady on a rather slow market: quoted from 3s. 1½d. to 3s. 3d. per lb. for duty-paid crystals.

CITRATES.—The makers advise a reduction of 3d. per lb. in the prices of the following citrates, which are now as follows:—

	List Per lb.	28 lb. Per lb.
Potassium citrate, B.P.	2 9	2 8
Sodium citrate, B.P.C., 1923	2 9	2 8
Sodium citrate, B.P.C., 1911	2 6	2 5
Iron citrate and ammonium, B.P. ...	2 11	2 10
Iron citrate and ammonium green scales	3 4	3 3
Iron citrate and quinine, B.P.:—		
	Per oz.	
25-oz. tins	9½d.	
4 x 25-oz. tins	9d.	
100-oz. tins	8½d.	

CITRIC ACID (B.P. crystals).—There is nothing to add to our remarks of last week. The spot position continues indefinite owing to lack of firm quotations from the Italian makers for forward delivery: foreign spot is now at about 2s. 5d. to 2s. 6d. per lb., less 5 per cent., as to quantity.

COCAINE AND SALTS.—Makers' higher prices, as reported last week, continue in force.

CREOSOTE (B.P.) continues to be quoted on spot at about ls. 8d. per lb.

CREOSOTE CARBONATE is unchanged on a slow market: spot, 5s. 10d. to 6s. per lb.

GUAIACOL CARBONATE meets with only a limited demand: spot is quoted from 4s. 6d. to 4s. 9d. per lb.

HEXAMINE.—Prices for free-running crystals continue at about ls. 11d. to 2s. 2d. per lb., as to quantity; business has been fair on small lots.

HYDROQUINONE is steady but quiet: quoted from 3s. 7½d. to 4s. 6d. per lb., as to quantity.

JALAP RESIN has advanced to 14s. 6d. per lb. and powder to 15s. 6d. per lb.

LACTIC ACID (B.P.).—Controlled prices continue, with business slow: quoted from ls. 6½d. to ls. 10½d. per lb., as to quantity.

MAGNESIUM OXIDE.—Heavy pure is 3d. per lb. cheaper at ls. 9d. per lb. in quantity.

METHYL SALICYLATE (B.P.).—Business has been moderate with competition keen: quoted from ls. 4d. to ls. 5d. for quantities in carboys; small lots, ls. 6d. per lb.

METHYL SULPHONAL is slow of sale: spot is quoted from 8s. 9d. per lb.

PARAFORMALDEHYDE (100 per cent. powder) is steady, but there is not much business passing: quoted from ls. 7d. for quantities in kegs; small parcels, about ls. 8d. per lb.

PARALDEHYDE is quiet and unchanged: quoted from ls. 1d to ls. 3d. per lb., as to quantity and packing.

PHENACETIN continues to be quoted from 2s. 4d. to 2s. 6d. per lb., as to quantity, while business of good size might be accepted at a slightly lower rate.

PHENAZONE shows no further change, although competition is very keen for a limited business: quoted from 3s. 8d. to 3s. 9d. per lb. for fair quantities.

PILOCARPINE is dearer at from 11s. to 11s. 6d. per oz. for hydrochloride and 9s. 9d. to 10s. per oz. for nitrate, as to quantity.

PIPERAZINE is dearer, with prices advanced to about ls. 10d. to 2s. per oz.; the market has not yet settled down and may be slightly firmer in due course.

PODOPHYLLIN RESIN.—B.P. is cheaper at 19s. 6d. per lb., and podophyllin resin emodi B.P. is cheaper at 10s. 6d. per lb.

POTASSIUM PERMANGANATE (B.P.) is steady but very quiet so far as big business is concerned: quoted from 5½d. for quantities in drums; small parcels, 6d. per lb.

RESORCIN is unchanged, with prices mentioned on spot about 2s. 10d. for large lots up to 3s. 2d. for small parcels.

SALICYLIC ACID (B.P.) is steady at from ls. 3d. to ls. 6d. per lb., the lower price for minimum lots of one ton.

SALOL is at the controlled prices of 2s. 3d. to 2s. 6d. per lb., as to quantity; business has been limited.

SODIUM BENZOATE (B.P.) is quiet but steady at ls. 7½d., for quantities in two-cwt. barrels; small parcels, from ls. 8d.

SPARTEIN SULPHATE is cheaper at 2s. 3d. per oz.

SULPHONAL has remained slow of sale on spot: dealers quote at about 6s. 6d. per lb.

TANNIC ACID.—B.P. *leviss*, in quantities, in kegs, is offered from 2s. 10d. per lb.; small parcels, from about 3s.

TARTARIC ACID (B.P.).—There has not been much business about, but prices are steadily maintained, and in some

respects the market is reported to be slightly firmer: quoted from ls. 4d. to ls. 4½d. per lb., less 5 per cent., as to quantity, for foreign crystals or powder.

TERPIN HYDRATE is neglected: quantities to come forward are offered at about ls. 5d. per lb.

THYMOL is dull of sale: synthetic fine white is offered in cwt. lots at about 9s. 6d. per lb.

VANILLIN has shown little activity on the open market: 100 per cent. from cloves, about 16s. to 16s. 9d. per lb.; ex guaiacol, 14s. 9d. to 15s. per lb.

Industrial Chemicals, etc.

London, November 21.

A FURTHER advance in spot and shipment prices for barium chloride is recorded, and the market continues firm. Otherwise there is little to report. Business has been steady, but continues to be limited in the size of most orders booked.

ACETIC ACID is steady, while business is limited: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store.

ACETONE continues firm at unchanged prices; B.G.S., ten-ton lots, £74 10s.; five-ton lots, £75 10s.; one ton, £76 10s.; less than one ton, £77 10s. per ton, in drums, ex store.

ALUM is steady, with a moderate business passing; lump, £8 7s. 6d. per ton, in casks, ex store; slightly less forward.

AMMONIUM CHLORIDE has been in good inquiry, with dealers' prices for grey galvanising at £21 5s. per ton, in casks, ex store; slightly less for contracts.

ANHYDROUS AMMONIA remains quiet, with prices from about 9d. to 1s. per lb., in loaned cylinders, carriage paid; slightly less for contracts.

ARSENIC.—There has been rather more doing in white Cornish 99 per cent., but the price is no better than £16 10s. f.o.r. mines, while even this figure appears to be shaded. Mexican high grade is £17 to £17 5s. c.i.f. Liverpool. Offerings from the Continent have again been suspended, but this does not seem to influence the market.

BARIUM CHLORIDE shows a further considerable advance, with 98 to 100 per cent. prime white crystals fully £11 10s. per ton, in casks, ex store; forward, £9 10s., f.o.b., Continent. Supplies are very short.

BLEACHING POWDER is unchanged, with 35 to 37 per cent. available chlorine at £6 12s. 6d. to £7 per ton, carriage paid, for contracts.

COPPER SULPHATE is firm with a steady demand, and the larger makers are quoting £26 10s. to £27 f.o.b. per ton for casks, less 5 per cent. October U.K. exports amounted to 2,236 tons, against 609 tons for September.

CREAM OF TARTAR (B.P.) continues quiet, with the quoted prices rather irregular round about 93s. per cwt., less 2½ per cent. for foreign powder.

FORMIC ACID has been in fair demand, with the market steady; 80 per cent. in carboys, £45 to £46 12s. 6d. per ton ex store.

ISOPROPYL ALCOHOL seems steadier, with most sellers now quoting from 11s. to 12s. per gallon, in drums, as to quantity.

OXALIC ACID is steady, and business has been on a fair scale; quantities from £29 15s. to £30 per ton, ex wharf; cwt. lots, 33s., ex store.

POTASH CAUSTIC.—There is no change in Convention prices; business is slow; 88 to 92 per cent. solid, spot, less than one ton, £36 15s.; one to five tons, £33 5s.; five to fifteen tons, £32 15s. per ton, in drums, ex store; 30s. per ton less c.i.f. in all cases.

POTASSIUM CARBONATE has remained dull; 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; slightly cheaper for contracts.

POTASSIUM PERMANGANATE has remained slow of sale; quantities of commercial quality, in drums, from 5½d. to 5½d. per lb., ex store.

POTASSIUM PRUSSATE is steady, and business has been fairly good: quantities from £63 10s. to £65 10s. per ton, in casks; single casks, 7d.; small parcels, 7½d. per lb., ex store.

SODIUM ACETATE continues firm, with little offering for delivery up to the end of the year; spot, £21 12s. 6d. per ton, in casks, ex store.

SODIUM CHLORATE has been dull; quantities to arrive, 23½d. per lb., ex wharf; small spot parcels, from 3d. to 3½d. per lb.

SODIUM HYPOSULPHITE is steady, but business has been slow; dealers quote pea crystals in one-cwt. kegs at £15 to £15 2s. 6d.; commercial quality, in casks, £9 10s. per ton, ex store. British makers' price for pea crystals to home consumers on contract, £15 per ton, carriage paid to buyer's station.

SULPHUR is in very fair demand, with American 99 per cent. crude at £5 12s. 6d. to £5 17s. 6d., Sicilian flowers at

212 1/2, 6d., refined ground at 211. and roll at 20 1/2, all a.s.f. to arrive.

WHEAT.—The Convention prices for imported and for home makes continue steady: dry, 231 to 242; ground in oil, 250 to 256 per ton, carriage paid in the U.K.

COAL TAR PRODUCTS, ETC.—Except than pitch has at last taken a turn for the better on quotation there is no change to report. Business generally has remained quiet. **ANILINE OIL** is unchanged, on a quiet market; from 8d. per lb., carriage paid, packages extra. **ANILINE SALT** is quoted from 5d. per lb., packages extra, carriage paid; market remains dull. **BENZENESULFONIC** is unchanged at 10s. per lb., carriage paid. **CARBOLIC ACID**, crystals, continue very steady as quoted for minimum five-ton lots, at 6 1/2d. per lb., f.o.b., in drums with over-casks; home trade price the same, carriage paid; crude 50's, about 2s. per gallon, naked, at works. **CHROSOTIC OIL** remains rather sluggish, but prices are holding steady; ex works, 5 1/2d.; f.o.b., 6 1/2d. per gallon, in bulk quantities. **NAPHTHALES** remains more or less idle, so far as imported material is concerned; flakes and balls, about 2 1/2 1/2s. per ton, in cases, ex wharf. **MURMIC ACID** is moving in fair quantities, with the spot price for small lots about 24 1/2 per ton, in drums, ex store; much cheaper prices for large quantities to come forward. **PICRIC ACID** continues idle and nominal at 4s. to 5s. per gallon, f.o.b. **TOLUOL** is steady, but quieter; commercial 90's, 1s. 7d.; pure, about 1s. 10d. per gallon, at works. **XILOL** remains dull; commercial, about 1s. 8d.; pure, about 1s. 9d. per gallon, at works. **PITCH.**—The market quotations show some recovery this week at 38s. to 39s. per ton, f.o.b. East Coast. This movement is probably due to the lockout in Germany. The market remains quiet.

Fixed Oils, etc.

COCONUT oils are firm. **LINSEED** oil closes irregular. Turpentine is rather firmer on the week. Palm oils are steadier at slightly higher prices. Other products are about unchanged. **ALMOND** oils are about unchanged and quiet; cocoon and/or palm kernel, 55s. 5d.; ground nut, 51s. 6d.; soy, 25s. spot. **CUSTO** is still dull and unchanged; pharmaceutical, 45s.; first pressings, 44s.; second pressings, 43s. 6d. per cwt. spot, in barrels, in not less than one-ton lots. **COCOA** is firm at full rates: deodorised, spot, 45s.; Ceylon, 50s. c.i.f.; Ceylon, 52s. c.i.f. **COTTON** continues steady and business has been better; deodorised, 45s. 6d.; common edible, 38s. 5d.; seedmaking, 35s. 9d.; crude, 35s. spot. **GROUND NUT** has been dull; deodorised, spot, 45s. 6d.; crude Oriental, 45s. c.i.f. **PALM KEROSENE** has been quiet; deodorised, about 45s. 6d.; crude, about 45s. 6d. spot. **PALM** shows a slight recovery on the week and the market seems steadier, closing quiet: Large, 35s. 6d.; soft, 37s. 1/2d.; mediums, 37s. 3d.; hard, 37s. 6d.; bleached, 39s. spot. **RICE** is quiet and slightly easier; refined, 45s.; crude, 43s. spot. **SOYA.**—Prices have recovered, with the market closing quiet; deodorised, 42s. 6d.; crude, 35s. spot. **LINSEED** (raw, naked).—Prices show an advance on the week, but the market is now irregular and quiet; on spot, 56s. 6d.; November, 25s. 5d.; December, 25s. 6d.; January-April, 26s. 1/2d.; May-August, 26s.; September-December, 25s. 6d.; Belled oil, spot, 54s. **HULL** on spot, 25s. 1/2d.; November, 25s. 1/2d.; December, 25s. 1/2d.; January-April, 26s. 3d.; May-August, 26s. 3d. **TURPENTINE.**—There was a further sharp advance over the week-end, while the spot price was raised to 48s., in sympathy with strong American reports, but there has been a reaction on speculative resales, and the London spot price closed on Wednesday at 47s. **DECEMBER** 47s. 5d., **JANUARY-APRIL** 47s. 5d. Deliveries last week were 1,768 barrels, making a total of 92,635 barrels since January 1, as compared with 96,614 barrels the same period last year. Stocks were returned at 34,784 barrels, which, together with 5,500 barrels added, makes the London visible supply 36,284 barrels, as against 36,156 barrels at the same date last year. **RISIN.**—There is only little alteration, while business has been rather restricted on the basis of current c.i.f. rates for American grade, which stands as follows: B D 25s. 3d., E to I 15s. 10d. to 20s. 1/2d., K to M 20s. 1/2d., N 21s. 1/2d., W.G. 23s. 1/2d., and W.W. 24s. 1/2d. Terms ex wharf command about 3d. per cwt. more. There has been rather more doing in French grades. **WOOD.**—Hickory, in barrels, on spot is steady but quiet at 7s. per cwt.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Lubricating oils on spot are very steady and tend to advance on account of the strong shipment market. Other products are about steady. Business has been fairly good in most directions. **BURNING.**—The advanced prices recorded last week are well maintained on a higher market: standard motor, 1s. 6d. per gallon, ex works. In tank wagons: ex London works, 2d. per gallon cheaper. **PURIN** oil is steady and business is moderate: 550 gravity, 55 1/2s.; 590 gravity, 54 2s. 6d. per ton, ex tank. **PARAFFIN** wax and stearin.—Wax is quiet but steady at 5d. to 5d. per lb., according to melting point, in bags. Stearin is quoted for shipment at about 225 1/2s. 6d. per ton, c.i.f. U.K.

PARAFFIN OILS continue steady: American standard white, 10 1/2d.; water-white, 11 1/2d. per gallon, barrels free; Roumanian water-white kerosene, 4 1/2d. per gallon, ex tank. **WHITE OILS** are unchanged, with the market quiet; special No. 1, 23s. 1/2s.; No. 1, 23s. 2s.; No. 3 half-white, 220 1/2s.; No. 4 half-white, 219 1/2s. per ton. Drums and barrels free, ex wharf. **SOLVENT NAPHTHAS** remain dull and unchanged: 90 to 150, 1s. 10d.; heavy 90 to 130, 1 1/2d. to 1s. per gallon, naked at works. **PETROLEUM JELLES** are steady and business fair: white to snow-white, 239 to 243 1/2s.; amber and yellow, 213 1/2s. to 222; dark stiff green, 211 1/2s. 6d. per ton, barrels free, ex wharf. **LUBRICATING OILS.**—The shipment market is very firm at advanced prices while the spot position is unchanged, but tends to advance; spot: pale, 29 1/2s. to 32 1/2s.; reds, 31 1/2 to 32 1/2 1/2s.; dark cylinders, 31 1/2s. to 32 1/2s.; altered cylinders, 31 1/2s. to 32 1/2s. per ton, less 2 1/2 per cent., ex wharf; slightly less for cask lots. **SOLVENT OIL** and **CUTTING COMPOUNDS**, 220 to 223 per ton net. No. 1 **RUSSIAN** oil is offered on spot at 2 1/2 per ton, less 2 1/2 per cent., barrels free, ex wharf.

Ergot Imports Case

On November 5 Justice Jennings Bailey, of the Supreme Court of the District of Columbia, dismissed the petition of Howard W. Ambrose, New York, in which an injunction was sought against the Secretary of Agriculture and the Secretary of the Treasury to prevent them from permitting the importation of alleged sub-standard ergot. The controversy has involved charges by Mr. Ambrose that his competitors, with the connivance of Federal authorities, were importing cheap ergot from Russia, which was below the legal standard, and counter-charges that Mr. Ambrose was attempting to corner the market on Spanish ergot and shut out all competition from other sources. In granting the motion to dismiss, Justice Bailey issued a memorandum saying:—

In my opinion the plaintiff has no interest in the matter complained of, which is sufficient for him to maintain the suit. In addition to this, if the relief sought by the Bill were granted, it would be an interference with the discretion of the Secretary of Agriculture and would be to substitute the judgment of the Court for that which is vested in the Secretary of Agriculture. The motion for an injunction will be overruled and the motion to dismiss will be sustained.

Mr. Ambrose's attorneys have announced an intention to appeal.

Tartaric Acid Tariff in U.S.

SINCE we referred to this matter in our issue of July 21 (p. 35) briefs showing reasons for and against a finding that the present duty on tartaric acid should be increased to equalise domestic and foreign costs of production have been filed with the United States Tariff Commission. A finding for an increase was asked by the four American producers, the Royal Baking Powder Co., Chas. Pfizer & Co., the Harshaw, Fuller & Goodwin Co., and the American Cream Tartar Co. Such a finding was opposed by the Bristol-Myers Co., proprietary medicine makers and large importers of tartaric acid. The domestic makers contend that the year 1925, in which the commission's agents secured cost figures, is typical and proper on which to base a finding, and that the figures as gathered by the commission's staff are correct. The commission's staff was unable to determine whether Germany or Italy was the principal competing country and, therefore, combined the two countries to give the foreign costs. The domestic producers declare that Italy is the principal competing country, as the German-Italian tartaric acid syndicate gets most of its materials from Italy, regardless of the locations of the plants that do the exporting. The importer declares that Germany is the principal competing country and asserts that the law makes no provision for combining the costs of two countries. The syndicate, the brief declares, has divided world markets, and Germany is the source of exports to the United States, arguing that, regardless of the amount of raw materials or the actual production in Italy, it is German, rather than Italian, tartaric acid that is now coming to the United States. The importer declares that 1925 was a very unusual year in the tartaric acid industry, because a trade war had been in progress for some time and was at its height in 1925, resulting in great over-production and low prices, hence a "record" exportation to the United States. In 1926, it is declared, the syndicate was formed to rationalise production, and shipments to the United States have been much lower since then, and the reduced production has meant higher production costs. The importer's brief relied on statements filed with the commission by the Italian commercial attaché, showing that present production costs in both Italy and Germany are much higher than in 1925 and comparing present prices of foreign and American tartaric acid in such a way as to support the argument that the duty should be reduced rather than increased.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

The Future of Retail Traders

SIR.—Although it is no doubt true, as stated in "The Passing of the Retail Trader" (*C. & D.*, November 10, p. 586), that multiple shops and combines are gradually ousting the private tradesman, the perusal of the article set me reviewing the position in my own locality, where there is one branch of a multiple store and about ten private chemists. On the face of it this does not look as if the individual pharmacist would be turned out of business for some time yet. Further, I have noted frequently that many of my customers come in with parcels wrapped up in paper and in a style which identifies them with the stores; and I have ascertained either by observation or (where people are well known to me) by judicious conversation that these parcels nearly always contain fancy goods or unprofitable proprietaries, and that having purchased these at the stores the customers walk a little further up the street and buy their drugs from me. The reason is not far to seek; it lies in the one word "personality." Of the commodities which are sold over the counter, medicine is the one which lends itself in a degree surpassing all others to the exercise of this characteristic, for the ailments of a person touch him so closely that he is usually anxious to discuss them and the best remedy for them. He can never do this in a store. From this point of view I doubt whether the pharmacist as an individual trader will ever be done away with so long as he looks after his business and attends to it properly. As to other trades, from a national outlook I consider that there is a great danger if we are to be eventually swamped by trusts and combines; the day this comes about will be a bad day for the consumer.

Yours faithfully,

UNMERGED (19/11).

Sixpenny Articles

SIR.—"Retailer" (*C. & D.*, November 17, p. 617) rightly states that the public will only see the difference in price and not in quantity. In how many cases where the price of a proprietary has been reduced from 7½d. to 6d. has the quantity been reduced as well? I have not measured or weighed any of the lines, but with some of them where the size of the packages can be compared there is a distinct difference, although only noticeable to anyone who is looking for it, and so the public do not really benefit by the reduction in price. The only thing to be said for these reductions is that they may attract a market which has not been touched before. With regard to the dye which "Retailer" instances, I should think that the manufacturers are basing their prospects on wrong ideas, for I doubt if they will be able to sell the 7½d. size against the store competition with the 6d. one.—Yours truly,

REVISER (20/11).

Out-of-Date Prices

SIR.—The letter of "Civis" (*C. & D.*, November 17, p. 617) throws a light on what is possibly the cause of many of the under-priced prescriptions which come into our hands from time to time, and cause so much dissatisfaction and argument between pharmacist and customer. There is no doubt that it is easy to get into the habit of charging the price marked in the prescription-book, and to forget that in these later days there have been so many fluctuations in the market prices of drugs; and so one is liable to go on dispensing the same repeat year after year without costing it out again. I had my attention drawn to this some time ago when bismuth salts were very high; a customer brought in a script containing a quantity of bismuth carbonate, and was very indignant when the price was stated, saying that it had always been dispensed at a price lower,

in fact, than the bismuth was worth alone. I found during the discussion that it had been dispensed at the same pharmacy for years. Since then I have taken care that all old prescriptions when repeated are re-priced as well, and the results have shown how necessary this is.

Yours, etc.,

REPRICE (19/11).

Our Status

SIR.—"Solo" (*C. & D.*, November 3, p. 560) assures us that each individual chemist has always been endeavouring to promote his own status. If this means anything, it must surely be a policy of selfishness. What leads men to take service with, say, the companies but the prospect of improving their own status in some way not easily discoverable? Such men quickly find themselves disillusioned; and I daresay that if one could see the list of resignations, one would be astonished. For my part, I regard with suspicion obvious and frequent changes in staffs. Without security of tenure the assistant pharmacist is a helpless person. A man can only advance his status in the companies by his ability and readiness to invest in the same; but more important still is his readiness to shed a good many of his professional habits. What he gains in one direction he loses in another. Honestly, I believe the status—condition or rank—of the chemist is definitely low. He is useful, of course, and may be compared with the "spare" wheel carried on motor-cars. At his best he is perhaps in the class of the shopwalker—who, I fancy, is a man who gets better pay than the counterman but is in other ways not greatly esteemed. The best way of improving one's status is to have a business of one's own, and only in such case can a man use his personality to some purpose. This was the ambition of most of the craft fifty years ago, and from it sprang the various high-class pharmacies, many of which survive—if only in name. Unfortunately we had others whose ideas of improving their status was to open and keep up dozens or scores of small branches, often under apprentice management, and the whole of us have had to suffer the consequences. No doubt these pioneers were to some extent within their rights, and some no doubt enjoyed a position and condition denied to most of us. If it is really desired to raise the status of pharmacists as a whole, there should be more encouragement of the younger men; no more apprentices taken and registered than can be absorbed to advantage; some clear understanding in respect of new pharmacies; and for a slogan "One man one shop."

Yours, etc.,

SENEX (6/11).

Was Oliver Goldsmith a Chemist's Assistant?

SIR.—"X-Rayser III's" notes on Goldsmith make no reference to this point, but possibly others besides myself have puzzled over the question. According to the "Dictionary of National Biography" and some notes of Austin Dobson's, Goldsmith landed at Dover on February 1, 1756, with a few halfpence in his pocket (the tale of how he supported himself during his tramp through France by playing the flute to peasants will be familiar to all). He reached London in great destitution and became assistant to a chemist named Jacob on Fish Street Hill. [This was probably J. Jacob, chemist and druggist, who carried on business in Fish Street Hill about that date.—EDITOR.] After a time he met his friend Dr. Sleight, and was then able to set up as a physician at Bankside (Southwark)—evidently not for long, for "about the end of 1756" he became an usher at Peckham. He appears to have recommenced medical practice in 1765 with no better success, as the "cost of purple silk smallclothes and a scarlet roquelaure," the biographer hints, "probably exceeded all he made by fees"; but in the following year "The Vicar of Wakefield" appeared. The "Essays" of Goldsmith are, I fancy, little read, but include an amusing paper on "Quack Doctors." Evidently poor Noll's connection with pharmacy was brief (and possibly bitter), but it would be interesting to know if he actually served behind a chemist's counter near the *C. & D.* offices.

I am, etc.,

INQUIRER (15/11).

Dispensing Notes and Difficulties

Acid with Iron and Ammonium Citrate

SIR,—Would you let me know the best method of compounding the following? What exactly takes place?

Ferri et ammon. cit.	...	...	5ij.
Quin. sulph.	...	...	gr. xxxij.
Acid. phosph. dil.	...	...	℥℥℥℥.
Glycerin.	...	...	3j.
Aquam.	...	...	ad 3viij.

Yours faithfully,

T. H. G. (17/10).

[Dispensed as written the mixture contains a brown precipitate consisting of ferric phosphate and quinine. The precipitate is obtained in a readily diffusible form by dissolving the iron and ammonium citrate in half of the water and adding the other ingredients dissolved in the remainder. Iron and ammonium citrate is incompatible with acids, and a clear mixture cannot be obtained with this form of iron.]

Quinine in Alkaline Medium

SIR,—What is the best and proper way to dispense the following? :—

Pot. bromid.	...	...	5ij.
Quin. sulph.	...	...	5j. Fj.
Tinct. nucis vom.	...	...	3ij.
Spt. ammon. aromat.	...	...	3ss.
Spt. chlorof.	...	...	3ij.
Aquam.	...	...	ad 3viij.

Yours faithfully,

R. W. M. (24/9).

[Quinine will separate out in an alkaline medium, forming curds, which adhere to the sides of the bottle. By using the equivalent of quinine alkaloid and a suspending agent, taking care to dilute the ingredients before mixing, a satisfactory mixture can be obtained. In the above case 69 grains of quinine alkaloid could be substituted and about 40 grains of compound tragacanth powder used as a suspending agent.]

Legal Queries

Landlord (20/811) granted a lease of property which has now expired. He has offered to renew the lease upon certain terms which the tenant refuses to accept. What should "Landlord" do next? [If "Landlord" cannot come to terms with the present tenant he had better give the tenant notice to quit, and let the premises to someone else. This, of course, is subject to any rights that the tenant may have under the Increase of Rent Acts or the new Landlord and Tenant Act.]

Cannabis Indica (21/11).—The Dangerous Drugs Act, 1925, extends Part I of the Dangerous Drugs Act, 1920, to "any extract or tincture of Indian hemp." This is followed by a comma, and the remainder of the paragraph apparently refers to diacetylmorphine. The Geneva Convention of 1925 stipulates "galenical preparations of Indian hemp." A corn plaster containing a small percentage of Indian hemp cannot be described as a "tincture" or "extract" of cannabis, hence, a corn plaster containing Indian hemp would not come within the Dangerous Drugs Acts. The question of a limit percentage does not arise, since none is specified.

Lattor (17/811) recently purchased the property (house and shop) which he previously held on lease. His auditor is asked by the inspector of taxes the price paid for the property and expenses of transference. Has the inspector a right to demand this information, and what is the position if such information is refused? [The inspector has no legal right to demand this information, and "Lattor" should ask the purport of such request. If "Lattor" has not charged any items of a capital nature against his profits, such as transfer costs, etc. (and which expenses an inspector of taxes has a right to question), he (the inspector) may not go further. The purpose of such a question as this is probably asked with a view to ascertaining sources of capital, especially if profits over a period of years are low and there is no other source of income.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. B. (27/9).—*HAIR LOTION*.—This highly perfumed preparation comprises a pale, sherry-coloured liquid and a thick muddy suspension, occupying about one-twelfth of the volume. Specific gravity of the liquid portion is practically unity, and the residue on drying down on the water bath amounts to 7 per cent. of glycerin, which gives no evidence of holding anything in solution. Some spirit is present. The suspension consists partly of a very fine vegetable powder, but it appears to contain also an insoluble amorphous organic compound of iron. Much iron is in the suspension, but none in the solution.

W. I. (29/9).—*QUINSEY POWDER*.—This has the appearance of a homeopathic trituration. It gives no reactions for antimony or mercury, and no ash. Nothing appears by extraction with alcohol. The sample weighed only 3 or 4 grains.

A. B. R. (9/10).—*KEEPING HONEY LIQUID*.—The best method of keeping honey in a semi-liquid state is to liquefy the honey and then strain it through flannel. The medicinal value of the various kinds of honey depends not on the colour, but on the sugar content of the product.

D. P. (10/10).—*SILVER COATING*.—To impart a high polish to silver-coated pills usually a solution of a gum which hardens fairly quickly, e.g., mastic, in a mixture of alcohol and ether, is employed for moistening the surface of the pills prior to rotating in silver leaf. The use of mucilage of gum acacia or of a solution of a gum in water renders the surface of the pill too soft under the silver coating to take a high polish in the rotating drum.

W. T. C. (3/118).—*CINEMA SPRAY*.—See *C. & D.*, 1928, I, 736.

P. T. (5/118).—*RUBBER STAMP INK*.—

Deep black E	...	...	5j. Fj.
Distilled water	...	...	5ij.
Acetic acid	...	...	5ij.
Spirit	...	...	3iss.
Aquam	...	...	to 3x.

F. M. (13/118).—*DIABETIC MARMALADE*.—See *C. & D.*, 1928, I, 294.

H. F. (14/118).—*LABEL VARNISH*.—White hard spirit varnish diluted with about an equal volume of spirit is best for varnishing labels. The labels must be sized twice and be quite dry before the varnish is used—two coats are required. The size is made by dissolving gelatin, 1oz., in water, 20 oz.

S. C. G. (16/118).—*SMOKE FOR AMATEUR THEATRICALS*.—See *C. & D.*, November 3, p. 562.

Enquirer (21/811).—It is too late to include a formula in the *C. & D. Diary*, 1929. The closing date for the acceptance of these formulas, as announced each week in the *C. & D.* from September 1, was October 15.

Retrospect of Fifty Years Ago

Reprinted from
The "Chemist and Druggist," November 15, 1878

Zinc Oleate

Dr. H. R. Crocker has reported very favourably, in a recent number of the "British Medical Journal," on the use of oleate of zinc in eczema. It is chiefly useful in the discharging stage of the acute and chronic forms of the disease. The preparation used by Dr. Crocker was made by Mr. Martindale by the following process: One ounce by weight of oxide of zinc is stirred with eight fluid ounces of oleo acid, made as free as possible from palmitic acid. The mixture is allowed to stand for two hours, and is then heated until the oxide is dissolved. On cooling it forms a yellowish-white hard mass. An ointment can be made by mixing one part of the oleate with one part of vaseline, or two parts of lard or simple ointment.



[Commenced C. & D., July 5, 1924]

Plaster Mulls.—A class of preparations under this title were introduced to the medical profession of this country by Professor Unna about 1886. They were also known as Mullplasts and Guttaplasts. A plaster mull may be described as a soft plaster or preparation somewhat between a plaster and an ointment, but partaking most of the character of a plaster. It should adhere readily and lightly to the skin, be soft and conformable to its surface, yet be easy of removal without a dragging pull on the skin. It takes its name of "mull" from the fact that a soft cloth known in cotton technology as a mull is used as the base on which to spread the medicated pastes. A soft, fine, open-weave bandage material is satisfactory for the purpose. Having procured a suitable mull cloth, it is essential for it to undergo some process of proofing. This is done in the case of German-made plaster mulls by means of a thin layer of gutta-percha, hence the name Guttaplast. This, however, has now been superseded by other materials. A satisfactory proofing is a strong paste (one in ten) made of indiarubber and benzol, evenly spread over the surface of the mull. Rubber gives a softer, more pliable, and adaptable proofed cloth than gutta-percha. The object of proofing is to prevent the various pastes from soaking through the mull and soiling the patient's linen. Further, it maintains the strength of the medicament by keeping it on the mull. Both of these are important points of improvement over the usual methods and results of applying ointments. Dr. Unna recommended a paste of aluminium oleate to carry the various drugs, but, after many experiments and tests, A. W. Gerrard (*C. & D.*, 1920, II, 98) favoured a paste compounded of indiarubber, wax, and benzoated lard, as such a combination can be, if necessary, readily hardened by the addition of wax, softened by the addition of lard, or made more adhesive by increasing the indiarubber. The most popular mullplasts are those containing salicylic acid, of which there is a series ranging in strength from 50 down to 10 per cent. The stronger pastes are employed with great advantage for the removal of cuticle, and to assist the cure of lupus and other skin diseases. Dr. Unna, in his experiments, found that the stronger pastes, though very effective, caused much pain, therefore he sought for an anodyne to allay or prevent the pain. This he found in pure creosote, made from beechwood, of which he used 40 per cent. together with 20 per cent. salicylic acid. On the labels of the German-spread plaster mulls it is customary to state the quantities of active ingredients which cover a surface of 1 metre long by 20 centimetres wide—that is, one-fifth of a square metre. In the case of a 50-per cent. plaster mull it is given as 20 grams. This method of labelling is evidently done to ensure uniformity by an even thickness of plaster, evenness of spreading, and regularity of action on the skin.

Plaster of Paris.—The chief use of plaster of Paris in pharmacy is for the making of plaster bandages. Extemporaneous bandages may be made by applying the plaster thickly to such material as check muslin or domette before rolling; after rolling the whole is moistened and wound round the limb. A 5 per cent. solution of dextrin may be used instead of water for moistening the bandage. The plaster is used to a considerable extent in dental work and for making moulds generally. See Calcium Sulphate.

Plasters.—The O.E.D. definition is: "An external curative application, consisting of a solid or semi-solid substance spread upon a piece of muslin, skin or some similar material, and of such nature as to be adhesive

at the temperature of the body; used for the local application of a medicament, or for closing a wound; and sometimes to give mechanical support." The spelling is found before the year 1000, but the variant "plaister" has not been traced further back than 1413. Plasters as a form of medication are of great antiquity. Their extemporaneous preparation has considerably decreased during the past thirty or forty years except in the case of cantharidin (and cantharides) plasters. A chapter of "The Art of Dispensing" (*C. & D. Offices*) is devoted to practical instructions for plaster-spreading. The general process of large-scale manufacture was outlined in *The Chemist and Druggist Diary*, 1898, but it was there explained that most manufacturers have their own trade secrets. A paper by G. Pinchbeck at the British Pharmaceutical Conference of 1907 (*C. & D.*, 1907, II, 177) made suggestions for rendering and keeping plasters aseptic.

Plasters: Sale.—Plasters containing a scheduled poison must be labelled with the name of the article and the percentage or proportion of poison, except in the case of B.P. or B.P.C. plasters. Lead in combination with oleic acid or other higher fatty acids comes within Part I of the Poisons Schedule; but if it is in the form of machine-spread plaster it is exempt.

Plate Dealer's Licence.—A person who trades in any article composed wholly or in part of gold or silver and in which the gold is above 2 dwt. or the silver above 5 dwt. in weight, must take out a licence as a plate dealer in respect of every shop or other place in which he carries on business. A licence must also be taken out by every pawnbroker who takes in pawn articles of the kind mentioned and by every refiner of gold or silver. The licence is an annual excise licence and expires on July 5. The fee payable by a refiner or pawnbroker is £5 15s. a year; but a dealer pays only £2 6s. unless he sells articles containing 2 oz. or more of gold or 30 oz. or more of silver, in which case he must pay the higher rate. The penalty for failing to take out a licence is £50.

Platinum.—It is impossible to tell when man first used platinum metals, which attracted the attention of early races because of the bright and permanent colour and high melting point. An alloy of platinum, gold and iridium was used at Thebes in the seventh century B.C. The metals were introduced into Europe in 1740 from Mexico, and in 1750 platinum was described as a "semi-metal." It was first melted in 1758, and hammered into foil and drawn into wire in 1772. The Spanish Government forbade the exportation of platinum from South America in order to prevent its use as an adulterant of gold coins. In 1819 the metal was discovered in the Ural Mountains, and first exported in 1824. A platinum coinage was introduced in Russia in 1828, but this was discontinued in 1845. The "platinum" metals include platinum, iridium, osmium, palladium, rhodium and ruthenium. They occur in a metallic condition in gravels and sands associated together as mixtures or compounds along with magnetite, gold, chromite, principally in the Urals, Caucasus, California, Sumatra, New Granada, Brazil and Australia. Platinum is a greyish-white metal with a brilliant lustre, harder than copper, silver or gold, ductile and malleable, and comes on the market in the form of foil and wire. It can be welded, m.p. 1,750°-1,755°, b.p. 2,450°. In the molten state it absorbs oxygen, which is given off on cooling. It is not attacked by pure hydrochloric, hydrofluoric, nitric or sulphuric acids, but is dissolved by aqua regia. Platinum is used in the manufacture of chemical and scientific apparatus. Platinum-iridium alloys are hard and elastic, malleable and ductile, but less fusible than platinum alone. An alloy of 10 per cent. iridium and 90 per cent. platinum is used by the International Committee on Weights and Measures for the preservation of the standards of weight and length. Platinum-iridium wire is used as a thermocouple for temperatures up to 1,000°, platinum-rhodium wires for temperatures up to 1,400°. Platinum has nearly the same coefficient of expansion as glass, and can be fused in glass to make airtight joints. It is a good conductor of electricity. Platinum is attacked at red heat by alkalis, nitrates, cyanides, phosphorus and arsenic, and forms an alloy with lead at high tem-

The C.&D. Commercial Compendium

peratures. Commercial platinum usually contains 2 per cent. of iridium, but loses this when heated in the blowpipe. This loss of weight of platinum crucibles, etc., is a source of error in experiments. Platinum alloys are used in jewellery and for chemical apparatus. An alloy used by jewellers consists of platinum 1, copper 1, and silver 2.5; platinum bronze is platinum 1, nickel 90, tin 9; dentists' alloy, platinum 5, gold 3, palladium 4; "platinor," platinum 2, copper 5, silver 1, nickel 1; "mockgold," platinum 7, copper 16. *Platinum black* is a velvet-black powder obtained when platinum is precipitated from solutions of the tetrachloride by reducing agents; *spongy platinum* is a mass of spongy metal obtained when ammonium chloroplatinate is calcined; *platinised asbestos* is asbestos soaked in a solution of platinum chloride and ignited. Platinum sponge, platinum black and platinised asbestos absorb large quantities of oxygen, and are used as oxidising agents; platinum black absorbs 100 times its volume of oxygen and 110 times its volume of hydrogen. Spongy platinum will cause a mixture of hydrogen and oxygen to unite with explosion. Similarly, coal gas can be ignited, and this property is utilised in making the so-called "self-lighting" gas burners. The catalytic properties of finely divided platinum are used in industry, but the application is limited owing to expense.

Platinum, Commerce, is a heavy tin-white metal and the leading one in the so-called platinum group of metals. It is harder than copper, gold, and silver, and ranks next to the two latter precious metals in regard to malleability and ductility. Platinum is not oxidised under ordinary atmospheric conditions, nor is it sensibly volatilised at the strongest heat to which utensils of the pure metal are usually subjected, although it has been volatilised in the electric furnace similar to other metals in the same group. Its melting point is about $1,755^{\circ}\text{C}$., but its fusibility is lowered in the presence of carbon, arsenic and many impurities, and it can be welded at a temperature considerably below its melting point. Before the war, world's consumers were almost entirely dependent on Russia for their needs, and the output in the Urals when at its zenith was estimated at well upwards of 200,000 oz., allowing for the considerable quantities which were smuggled out of the country in order to evade the Government tax. The Russian output was badly crippled over the war period, having fallen to as low as 25,000 oz., which naturally, in consequence of heavy war needs, caused the price to rise quickly from £9 5s. per oz. (the average for 1913 and until the declaration of war in August 1914) to a phenomenally high level, reaching as much as £38 10s. per oz. in the early part of 1920. Since then the market for refined platinum fluctuated down to a little under £14 in 1927, from which there ensued a recovery to upward of £17 per oz. Just before the war the Colombian output amounted to 15,000 oz., but was subsequently actively developed, at least three-fold. In more recent years important developments have occurred with the energetic exploitation of new deposits in Canada and South Africa, where these deposits are regarded as a matter of vital importance to the British Empire. At the same time, the industry in the Urals has fairly well re-established itself again. Estimates of the world's production for 1927 were placed by the agents of the Russian Government at 130,000 oz., including Russia at 53,000 oz., Colombia 45,000 oz., Canada 20,000 oz., and South Africa 12,000 oz., but a German authority placed the Russian output for that year at about 100,000 oz., on the basis of which the total world-production would amount to upward of 170,000 oz. These figures closely approximate to the resources recorded in either 1913 or 1914. The Russian industry was by the early months of 1927 completely reorganised, whereby the exploitation of poor deposits is possible at a considerably reduced cost compared with the two previous years. This reorganisation, including the installation of adequate refining plants, has apparently placed Russia in a position to market virtually the whole of their resources in the shape of refined metal, so that crude is not being exported as before the war,

when only a mere fraction of her exports consisted of refined metal. The Russian industry has thus entirely freed itself from foreign control, so that Russia's position in the world's markets has been to that extent strengthened. According to the U.S.A. official statistics for 1927, imports of foreign crude platinum were as follows:—From Australia, 1,390 oz.; Canada, 19 oz.; Colombia, 43,557 oz.; Russia, 17 oz.; and South Africa, 3,924 oz. The stocks of platinum in the hands of American refiners at the end of 1927 amounted to 68,557 oz., against 64,203 oz., 44,024 oz., 40,464 oz., and 36,554 oz., respectively on December 31 in the four preceding years, so that there has been a steady accumulation there within the last five years. America being the largest world's consumer, the distribution of her consumption for the last two years is interesting, and was as follows:

U.S.A. Consumption of Platinum (troy oz.).

Industry.	1926	1927
Chemical	10,253	11,010
Electrical	16,765	14,905
Dental	8,542	7,504
Jewellery	85,908	86,036
Miscellaneous	17,381	3,176
Total	138,849	122,631

There has been a slight increase in the chemical industry, and also for the jewellery trades, but the use for dental and miscellaneous purposes has been considerably less, which would largely explain the sharp drop in the price in 1927. In 1922 American consumption was much heavier, and amounted to 156,838 oz., but the needs for the jewellery trades, which then totalled 108,527 oz., have declined substantially. During the war the metal was used in increasingly large quantities in munitions plants as a catalysing agent in the contact process of making the highly concentrated sulphuric acid used in high explosives. Platinum and alloys of silver with 25 to 35 per cent. of the former have been freely used in dentistry, and platinum is required for the preparation of platinum salts, notably chloride, for photographic work. The following figures (troy oz.) show the imports into Great Britain during the past five years:—

Platinum, crude

From	1922	1923	1924	1925	1926
Russia ..	—	—	—	49,388	—
Latvia ..	1,185	—	362	1	—
Netherlands ..	16	31	62	47	542
Belgium ..	265	14	34	20	206
France ..	2,032	2,527	2,474	1,444	2,162
Spain ..	62	137	162	110	245
Italy ..	119	152	664	379	216
U.S.A. ..	436	1,918	2,897	3,100	1,849
Cuba ..	—	100	200	224	283
Colombia ..	2,281	2,000	2,775	2,570	2,723
Panama ..	190	200	—	—	602
Other foreign countries ..	—	204	60	187	386
From British countries ..	6,586	7,283	9,690	57,470	9,214
Total ..	6,624	7,327	9,799	57,523	9,310
	£87,314	141,061	212,091	1,144,041	184,045

Platinum, refined

	1922	1923	1924	1925	1926
Russia ..	—	6,424	32,124	33,531	138,919
Latvia ..	—	108	—	—	27,300
Germany ..	7	4,812	—	198	386
France ..	2,064	2,029	2,690	3,186	2,882
Other foreign countries ..	421	118	108	16	131
Total ..	2,492	13,491	34,922	36,931	169,618
	£53,558	324,138	882,083	807,192	3,583,783

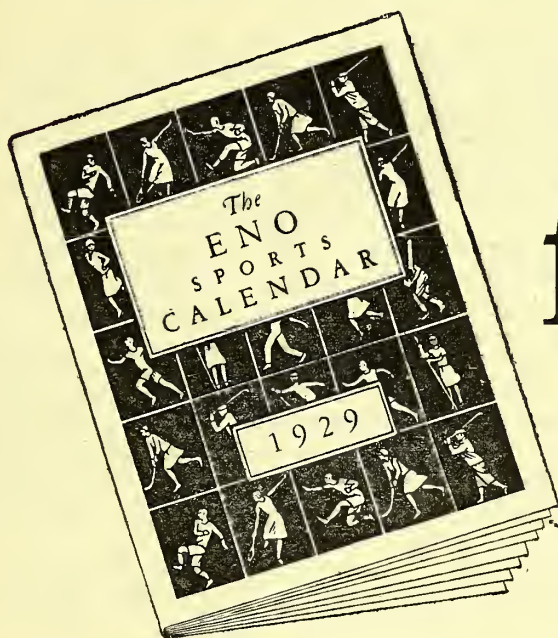
Germany.—The imports of platinum metal and platinum articles in 1927 were 78.1 kilos, against 57.2 kilos in 1926. Last year France sent 22.2 kilos, Alsace 0.7 kilo, Great Britain 5.2 kilos, and Switzerland 4.3 kilos.

France.—The imports of unrefined platinum bars and lumps in 1927 were 1.223 kilos, against 672 kilos in 1926.

Italy.—The imports of platinum in bars, powder and lump in 1927 were 99 kilos, against 16 kilos in 1926.

ENO

POCKET CALENDARS



free!

We invite you to make application now for a supply of the Pocket Calendars illustrated above. These have been carefully prepared and are in every way suitable for handing to your regular customers.

They will be despatched early in December, and you are invited to make application by December 10 as all requests must be dealt with in rotation.

Send a postcard now to

J. C. ENO LIMITED

P.O. BOX 671, LONDON, E.C.4

COLOCYNTH PULP

PRIME SEEDLESS



ask **BERK**

*Export
Speciality*



F. W. BERK & CO. LTD.
106 Fenchurch St., London, E.C.3
Telephone: Avenue 9362 (7 lines).
Telegrams: "Berk, Phone, London."
Works: STRATFORD, E., & MORRISTON, Glam.

ACIDS

Sulphuric, Nitric, Hydrochloric,
Lactic, Hydrofluoric, Citric,
Tartaric, Perchloric (puriss.)

CHEMICALS

Quicksilver, Sulphur,
Mercurial Salts, etc., etc.

CRUDE DRUGS

American Botanicals.

TAS/ch.126

RIPPIN FOR BENJAMIN

CALL AND INSPECT OUR SAMPLES.

Phone: ROYAL 2165.

A.J. RIPPIN, Ltd., 17 Harp Lane, E.C.3

GLYCERINE

B.P., White Industrial, and
Pale Straw Qualities.

A. ELDER REED & CO. Ltd.

Peninsular House, Monument Street, London, E.C.3.

Tel. Nos.: Royal 3282 & 7000. Tel. Add.: "Eldereed, Bilgate, London."

ETHYL ALCOHOL SUBSTITUTES

ISOPROPYL ALCOHOL

ETHYLENE GLYCOL

PURE PEPPERMINT OILS, Single and Double Distilled
AMERICAN, ITALO-MITCHAM, RUMANIAN, ETC.

ESSENTIAL OILS, CONCENTRATED PERFUMERY COMPOUNDS, ESSENCES, ETC.
AROMATIC CHEMICALS ORGANO THERAPEUTIC PREPARATIONS
GLANDULAR EXTRACTS PHARMACEUTICAL DRUGS AND CHEMICALS

R. ANSAY, LTD., 44 Wilson Street, LONDON, E.C.2

Telephone: LONDON WALL, 3103

*We can quote you favourably
for bulk or packed supplies of*

**COD LIVER OIL
LIN. CAMPH. B.P.
C.L.O. EMULSION
PARAFFIN. LIQ.
SYR. FERRI PHOSPH. CO.**

JOHNSON & SONS
Manufacturing Chemists, Ltd.

HENDON
LONDON, N.W.4

**GENUINE
RASPBERRY
VINEGAR**

(ARNFIELD)

CONTAINS NO PRESERVATIVES

Fully guaranteed

- (i) To meet the requirements of the Food and Drugs Act and also
- (ii) The new Pure Food regulations.

Made from genuine Fruit Juice and pure cane sugar, supplies will keep indefinitely without fermentation or deposit. Sold in casks, carboys and Winchester quarts, sample and quotation will be sent on receipt of enquiry stating quantity required.

J.C. ARNFIELD & SONS
LIMITED.

Manufacturing Chemists,

**GADSBY WORKS, PRINCES ST.
STOCKPORT.** Established 1786.

Telephone : 601 (2 lines) Pr. Bch. Exch.
Telegrams : Chemicals, Stockport.

**ANILINE DYES
PHOTOGRAPHIC
CHEMICALS**

LIQUORICE (BLOCK and STICKS)
GENERAL CHEMICALS

We Specialise in Highest Quality.

Distributors in England for

FRIES BROS.' renowned ESSENCES
(PEACH, APRICOT, Etc.)

Also for the HIGH CLASS

Melba Toilet Preparations

A. CONNELL & CO., Melba House,
WENLOCK ROAD, CITY ROAD, LONDON, N.1
Phone : Clerkenwell 7266. Tele. : "Nitrozone, Nordo, London."

Carnegie Bros.

Contractors
to H.M.
Government

227-229 ESSEX ROAD,
LONDON, N.

Telegrams : "Carnebros, London."

Telephones : Clissold 3560 and 2318.

for Chemicals

EPSOM SALTS
*Commercial and B.P. Qualities
also Powdered*

Glauber's Salt
*Commercial and B.P. Qualities
and Desiccated*

Zinc Sulphate
Commercial and B.P. Qualities

Zinc Chloride
Fused, Granulated and Liquid

**WILLIAM
BLYTHE
& CO., LTD.**

Holland Bank Chemical Works

**CHURCH
LANCASHIRE**

**Hyposulphite
of Soda** *Pea Crystals*
Lead Arsenate
Paste and Powder

**Precipitated
Sulphur**
WEED KILLER

*A list of our general Technical
Chemicals sent on application*

Telephone : CLERKENWELL, 1315.

Telegrams : "ETHERMETH, SMITH, LONDON."

ALFRED WHITE & SONS, LTD. (Established 1775)

Manufacturing and Export Chemists

28-31 ALLEN ST., GOSWELL RD., LONDON, E.C.1.

ACIDS (Pure and Coml.)
BISMUTH SALTS
CHLOROFORM
CITRATES

ETHERS (all gravities)
HYPOPHOSPHITES
LIQ. AMMONIA
MERCURIALS

QUININE SALTS
SP. AMON. AROM.
SP. ETHER NIT.
IODINE PREPARATIONS, Etc.

CHEMICALS FOR RESEARCH, ANALYTICAL, PHARMACEUTICAL AND TECHNICAL PURPOSES.

ALKALOIDS

Fine Chemicals Opium Derivatives

ALOID	DIAMORPHINE	LEPTANDRIN
ATROPINE	EMP. CANTH. LIQ.	MORPHINE
BISMUTH SALTS	ERGOTIN	OPIUM
CAFFEINE	ESERINE	PODOPHYLLIN RESIN
CANTHARIDIN	ETHYLMORPHINE	SALICIN
CAPSICIN	GINGERIN	SANTONIN
CHLOROFORM	HYOSCYAMINE	SCAMMONY RESIN
CHRYSAROBIN	IRIDIN	STRYCHNINE
CODEINE	JALAP RESIN	VERATRINE

Goods covered by Dangerous Drugs Acts offered subject to all regulations.

T. & H. SMITH L^{TD}

BLANDFIELD WORKS: 25 CHRISTOPHER STREET: 32 & 34 VIRGINIA STREET
EDINBURGH. : LONDON, E.C.2. : GLASGOW.

ESTABLISHED 1827

LEVER'S GLYCERINE

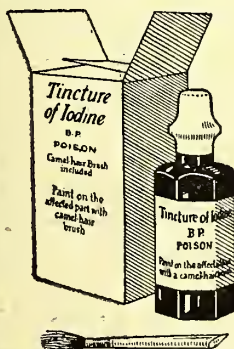
*Best for all pharmaceutical and
industrial purposes*

Our chemically pure glycerine is guaranteed to comply with
all the requirements of the Food and Drugs Act and the
British Pharmacopœia.

LEVER BROTHERS LIMITED

Glycerine Dept., 46, Chancery Lane, London, W.C.2

LG 9-200A



TINCTURE OF IODINE B.P.

3oz. Blue Poisons, rubber corked
with white Viscose Cap, complete
with Camel Hair Brush.

4s. 6d. Dozen
Carr. Paid.

Tinct. Iod. Decolor. B.P.C.

Packed as above 4s. 4d. Dozen
Carr. Paid.

CASH WITH ORDER UNDER 20/-

Clayton (Surgical & First Aid) Ltd.

37, 37a, LEWISHAM ROAD,
LONDON, S.E.13

HYP0

PLEASE SEND YOUR

INQUIRIES & ORDERS

TO THE

MANUFACTURERS

JOHN RILEY & SONS

C.D. DEPT., LTD.

CHEMICAL MANUFACTURERS,

Post Office, Box 62 ACCRINGTON.



TRADE **"TWENTY MULE TEAM"** MARK

BRAND

BORAX B.P.
Quality

CRYSTAL

POWDER

BORIC ACID B.P.
Quality

CRYSTAL

GRANULATED

POWDER

Guaranteed to comply with the requirements of the British Pharmacopœia.

BORAX CONSOLIDATED LTD.,
16, Eastcheap, London, E.C.3.

SOLAZZI *The Chemist's Brand*
LIQUORICE JUICE

SOLAZZI JUICE IS GUARANTEED TO CONSIST ENTIRELY OF THE CONDENSED EXTRACT OF FINEST CALABRIAN LICORICE ROOT WITHOUT ANY ADMIXTURE WHATEVER

Should any enquiry as to the composition of SOLAZZI be received from the public, Chemists are asked to emphasise the fact that SOLAZZI is not included in the category of Secret Remedies, and that the accompanying guarantee obtains with every parcel.

GALENICALS

from Chemically and Physiologically tested Drugs.

RAPID SERVICE & QUICK DELIVERY

are the KEY NOTE to success in business these days,
which points receive foremost consideration with

WILLOWS, FRANCIS, BUTLER & THOMPSON, LTD.

Telegrams—"Forty, Kinland, London." 89a SHACKLEWELL LANE, LONDON, E.8.

Telephone—Clissold 6361 (4 lines) (4)

Sturgeon Brand Chemicals

CITRIC ACID

CITRATE of POTASH

CITRATE of SODA

FERRI et AMMON

CIT.

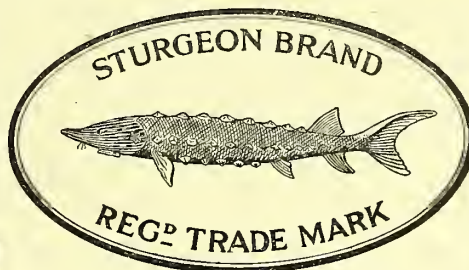
BICARBONATE of POTASH

CARBONATE of POTASH

PRECIPITATED CHALK

CALC. CARB. PRECIP.

for Dentifrice Pastes, &c.



ESTD. 1823.

ROCHELLE SALTS

PULV.

SEIDLITZ

TARTRATE of SODA

TARTRATE of POTASH

CREAM of TARTAR

JOHN & E. STURGE L^{TD}. WHEELLEY'S LANE
BIRMINGHAM

AGENTS:
H. J. BAKER & BRO., 81 Fulton St., NEW YORK
G. REINBOLD & C^{IE}., 10 Rue Perrée, PARIS

CABLES: "STURGEON, BIRMINGHAM"
CODES: A.B.C. 5th & 6th Edns., BENTLEY'S
MARCONI INTERNATIONAL

'ALLONAL'
'DIGALEN'
'IODOSTARIN'
'ISACEN'
'OMNOPON'
'SEDOBROL'
'SOMNIFAINE'
'TUBUNIC'

Are trade-mark names of

'ROCHE'

Pharmaceutical Products

issued by

THE HOFFMANN-LA ROCHE CHEMICAL WORKS Ltd.

THE 'ROCHE' LABORATORIES,
51 BOWES ROAD LONDON, N.13.

Telegrams:
Hoofrche, Palm, London.

Telephone: { 2826
Palmer's Green { 2827

THOMAS TYRER
& CO., LTD.

**STERLING
— BRAND —
CHEMICALS**

ETHER
CITRATES
BISMUTH SALTS
SCALE PREPARATIONS
HYPOPHOSPHITES
BROMIDES
ACIDS,
ETC.

STRATFORD, LONDON, E.15

SODIUM SALICYLATE B.P.A "P.M. BRAND" PRODUCT OF OUTSTANDING
QUALITY.SUPPLIED IN BOLD, BRIGHT GLISTENING
FLAKES, OR POWDER.SEND A POST-CARD FOR SAMPLES OR PRICES.
THE RIGHT PRODUCT AT THE RIGHT PRICE.*Enquire also for***ASPIRIN B.P. (all forms),****ASPIRIN TABLETS (in bulk)***and SALICYLIC ACID B.P.**all of which maintain the P.M. Standard.***PIERSON, MORRELL & CO., LTD.**THE ORIGINAL BRITISH ASPIRIN MAKERS,
100 QUEEN'S ROAD, BARNET.**Phone No.:*
Barnet 0723.*Telegrams and Cables:*
"Pierson Morrell, Barnet."**The Wholesale PILL AND TABLET HOUSE****Buy from Specialists.****Quality is our first concern.****PRICES VERY MODERATE.***Contracts for any quantity.**Quotations gladly given.***HOWARD LLOYD & CO., LTD., LEICESTER****Tablets**

Enquiries are invited for

**ASPIRIN AND CASCARA
TABLETS**

IN BULK OR PACKED.

A Customer writes:—"Re Aspirin Tablets.
Your sample was one of the best we have ever
had, we anticipate doing good business with
you if you can maintain that quality."—We
CAN, AND MEAN TO!!

LET US QUOTE YOU.

CASTLE HUSKISSON, LTD.Manufacturing Chemists,
Swinton Works, Moon St., Islington, N.1
ESTAB. 1768.Private formulæ Pills and Tablets carefully and
accurately prepared at lowest possible prices.**Pills****PROFITABLE
LINES IN TABLETS**

of Guaranteed Purity and Excellence of Finish.

YEAST TONIC TABLETS.**ASPIRIN AND CASCARA.**Bottled and Cartoned. Also a 3d. line in glass
tubes (carded), showing Profit of 130%.**HEART SHAPE INDIGESTION**(B.B. best). A really good and efficient tablet.
Artistic cartons, showcards, etc.YOU WILL BE ASKED FOR "CELERIDS,"
THE WONDERFUL RHEUMATISM TABLET.

WRITE US AND SAVE MONEY.

BUCKLEY-BOWKER TABLET CO. LTD.
PARKFIELD ST. and BERNERS ROAD, LONDON, N.1**WESSANEN'S
PURE COCOA POWDER
PRIME COCOA BUTTER**

Sales Office :

12 Broom Lane, Broughton Park,
MANCHESTER.

WE GUARANTEE

the consistent purity & quality of
"PATTINSONS" MAGNESIA PRODUCTS



for all purposes

The Washington Chemical Co. Ltd.
Washington Station, County Durham,
England.

"PATTINSONS" MAGNESIA in its various forms occupies the premier position in the markets of the world owing to its chemical purity, lightness, uniformity of colour, texture and freedom from hygroscopic moisture.

Light and Ponderous Carbonate; Light and Ponderous Calcined; Fluid and Mist. Magnes. Hydrox. for Pharmaceutical purposes.

Also Industrial and Technical grades of highest quality.



RIVISTA ITALIANA DELLE ESSENZE E PROFUMI

(Affiliated to the Technical Press Association.)

Official Organ of the Group of Producers of Aromatic Substances of the National Fascist Federation of Chemical and Allied Industries.

Director : - - - - Dr. EMMA FENAROLI.

Editorial Offices : - VIA S. VINCENZO N.38 MILAN.

Telephone : 31 216-C.P.850.

Producers of Aromatic Substances for Perfumery—Manufacturers of Articles used in the Perfumery Trade—This is the Periodical in which to Advertise effectively in Italy.

MAKE USE OF ITS ADVANTAGES

SAMPLE COPY AND TARIFF ON REQUEST.

**CRUDE DRUGS
SPICES ESSENTIAL OILS**

Peppermint
Sassafras
Spearment
Orange
Lemon
Cumin
Dill
Nutmeg
Caraway
Juniper
Wormseed
Cedar Wood
Oils and
Chaulmoogra
Oil, Etc.

Speciality:

American Botanical Drugs

Cascarilla
Eucynmus
Hydrastis
Wild Cherry
Grindelia
Senega
Jalap
Lobelia
Hemlock
Cascara
Curacao Aloes
Scammony
Podophyllum
and
Kamala, Etc.

AGENCIES:

PEDER DEVOLD OIL COMPANY, AALESUND.

"ORANJE," AMSTERDAM. GOULD WITCH HAZEL CO., BOSTON.
W. KRUG & CO., AMSTERDAM. M. SALAMONE, TURIN.
EXCHANGE ORANGE AND LEMON PRODUCTS CO., CALIFORNIA.

WHEELER & HUISKING, LTD.
26 GREAT TOWER STREET, LONDON, E.C.3

**Ephedra Vulgaris
Tamarinds, E.I.**

Kamala Powder (6/8% ash)

Costus root

**Podophyllum root
and other Indian Botanicals**

S. N. De, M.Sc. (Botany)
Post Box 7851, Calcutta.

Cables: "Podophyllum," Calcutta.
Codes: A B C, 6th Edition and Bentley's.

CAFFEINE PURE ALKALOID
CITRATE

THEOBROMINE PURE ALKALOID
SODA SALICYLATE

AND ALL OTHER SALTS.

QUALITY STRICTLY B.P.

STOCKS HELD IN LONDON.

Societeit voor Chemische Industrie
"KATWIJK" (Holland).

Agent: ED. CREYER, Eush Lane House, BUSH LANE, E.C.4
Phone: CITY 1030.

JOH. A. BENCKISER, LUDWIGSHAFEN - ON - RHINE

TARTARIC ACID IN POWDER
CRYSTALS and
GRANULATED

GUARANTEED IN STRICT ACCORDANCE WITH B.P.'14

ACID PYROPHOSPHATE OF SODA

Quality in all respects equal to Cream of Tartar, especially as regards stability of Baking Powder.

Please address all communications regarding Tartaric Acid to:

Vereinigte Weinsaeurefabriken G.m.b.H., Wiesbaden, Mainzerstr. 25.



PHARMACEUTICAL PRODUCTS

issued under the following Trade Marks or Brands in Original Packings as under:

- | | | |
|---|---|---|
| 'COMPRAL'
7½ gr. (0.5 gm.) tablets in tubes of 10. | 'HEXETON'
Intramuscular:—Brown ampoules (2½ c.c. of a 10% solution). Intravenous:—Blue ampoules (1½ c.c. of a 1% solution). | 'NOVALGIN'
Bottles of ½-1 oz. Tablets, 7½ gr., tubes of 10. |
| 'ADALIN'
Cartons, ½-1 oz. Tablets, 5 gr., bottles of 25 and 100; 7½ gr., tubes of 10. | 'NOVASUROL'
Boxes of 10 ampoules, 1½ c.c. each. | 'PYRAMIDON'
Cartons ½-1 oz. Tablets, 1½ and 5 gr. |
| 'VALYL'
In bottles of 25 pearls. | 'PHANODORM'
3 gr. tablets, tubes of 10. | 'PELLIDOL OINTMENT'
In tubes. |
| 'THEOMINAL'
Tablets in tubes of 20 and bottles of 50. | 'LUMINAL' and 'LUMINAL' SODIUM'
Cartons and bottles of ½-1 oz. Tablets, ¼ to 5 grs. | 'ORTIZON'
In bottles of 75 globules. |

PRICE LIST ON REQUEST FROM

BAYER PRODUCTS Ltd., 19 St. Dunstan's Hill, London, E.C.3

"Thilocologne"

"DR. THILO" (Name registered)

Ethyl Chloride Cum Eau de Cologne

Has Caught On.



Observe Thilo's New Syphon Bottle.

Absolute Chemical Purity.
Competitive Prices.



Observe Thilo's New Drop Nozzle for General Anæsthesia.

Now used extensively by

DENTISTS.

HOSPITALS.

GENERAL PRACTITIONERS.

Ask for prices and free sample tube for demonstration.

W. BREDT, 41 Gt. Tower St., London, E.C.3

(Sole Concessionnaire for the U.K. and Ireland).

EVERY SALE OF

HIMROD'S Asthma Cure

CREATES A SATISFIED CUSTOMER

SUFFERERS SEEKING RELIEF FROM

The paroxysms of

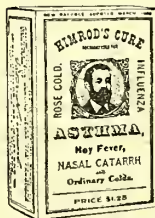
BRONCHIAL ASTHMA

Asthmatic Hay Fever

Common Colds

Nasal Catarrh

Bronchitis



Will be quickly helped by the use of this time-tried remedy. Burn half a teaspoonful, inhale the fumes and the distress vanishes.

ON THE MARKET FOR OVER 50 YEARS

"Himrod's Cure is a well known product, very useful in many cases."

—W. J. Hadley, M. D., formerly lecturer at London Hospital.

May be had from wholesale distributors throughout the world

Himrod Manufacturing Company, Mfrs.
JERSEY CITY, N. J., U. S. A.

The ANGLO-FRENCH DRUG CO. Ltd.

Distributing Agents for
High-Class French Pharmaceutical Preparations

STANNOXYL — Tablets, Liquid, Ointment, etc.

ORARGOL — Ampoules, Solution, O.R.L. Outfit.

MYCOLACTINE

IODOBESIN

IODASEPTINE

SEPTICEMINE

We have recently introduced and are now advertising to the Medical Profession :

		Retail.	Wholesale.
GYNOCALCION M.	Bottles of 80 dragees	.. 7/6	68/- per doz.
"	P. " "	.. 7/6	68/- "
SYRUP PERTUSSIS (Gabail)	Bottles of 125 cc...	3/-	27/- "
TRINITRINE CAFÉINÉE (Dubois)	Tube of 60 pills	5/-	45/- "

Your co-operation in promptly obtaining supplies when required will be appreciated.

238a GRAY'S INN ROAD, LONDON, W.C.1

Telephone: MUSEUM 4029.

Telegrams: AMPSALVAS, LONDON.

Associated Houses: Paris, New York, Montreal, Bombay, Sydney, Wellington, Tokyo.

CARLO ERBA, MILAN Manufacturers of Chemicals and Pharmaceutical Products

English Agent: Dr. F. M. SCAGLIONE, 49 Knightsbridge, London, S.W.1

Announce that they are introducing to the Medical Profession the undermentioned Products:—

Odopeptol

The integral and pure gastric juices obtained from the mucous membrane of fresh pig, containing pepsine at its highest degree of activity.

Yodantraco

A special preparation of Metalloidiodine absorbed by pure animal charcoal.

Supplies can be obtained from ROUSE & CO. LTD., 12 WIGMORE STREET, LONDON, W.1

"YEAST FOR VITAMIN B."

Yeast specially prepared for medicinal purposes.

GUARANTEED ABSOLUTELY PURE.

MIDGLEY & PARKINSON, LTD.,
WARREN WORKS, PUDSEY, LEEDS.

Teasdale's Chlorodyne

Shows the best profit to the Chemist
and is the cheapest to the Customer.

NO Signature Required. Sold by CHEMISTS ONLY.

From all the leading WHOLESALERS. TERMS FROM
The Teasdale's Chlorodyne Co. 75 Fitzwilliam St. HUDDERSFIELD

THERE IS PROFITABLE BUSINESS TO BE DONE IN
CINEMA SPRAY SOLUTIONS

ASK FOR SAMPLES AND PRICES.

JOSEPH BROOKS & CO., LTD.

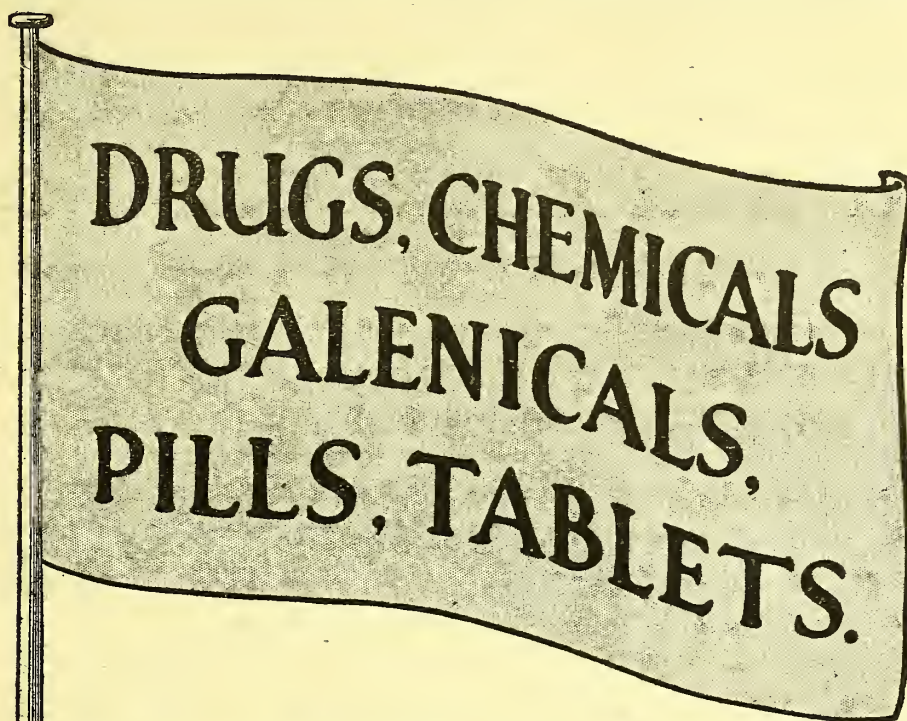
Wholesale Druggists and Manufacturing Chemists.

42 SHUDEHILL

MANCHESTER



(TRADE MARK)



**Our Standard is High.
Our Prices are Right.
May we quote you?**

All materials employed are the finest procurable, whilst scientific methods of preparation and standardisation ensure that the finished products conform to, and wherever possible exceed, B.P. or other recognised standards. Special formulæ prepared with scrupulous accuracy.

Write for Trade Lists.

Hirst, Brooke & Hirst, Ltd.
Millgarth Mills, Leeds.

ESTABLISHED 1843

*May we call your**attention to:—***PETROLAX** (BROWN CARTON)

(REGISTERED TRADE MARK)

THE IDEAL PARAFFIN AND AGAR-AGAR EMULSION**PETROLAX COMPOUND**

(RED CARTON)

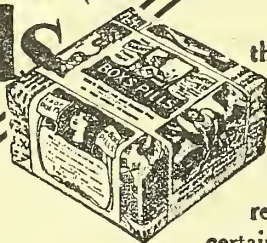
A COMBINATION OF PETROLAX AND PHENOLPHTHALEIN**PETROLAX ALKALINE**

(BLUE CARTON)

A COMBINATION OF PETROLAX AND MIST. MAGNES. HYDROXIDI*Note the Prices:—*RETAIL 2/- (Nominal $\frac{1}{2}$ lb.) 14/- doz

,, 3/6 („ 1lb.) 24/- „

,, 6/- („ 2lb.) 44/- „

*Stocked by the leading Patent Houses, or direct from the SOLE MANUFACTURERS:—***C. R. HARKER, STAGG & MORGAN, LTD.****Mile End, London, E.1****BOX'S**
PillsYou've
heard of
them before.
You may
have been
asked for
them al-
ready. You
certainly WILLbe asked for them, because demand is now
being steadily developed by advertising.
(Display material supplied free.)Sizes : 1/3, 3/-, 5/-, 12/-, and 22/-
(On P.A.T.A.)*Wholesale prices on application.*

Prepared only by the Proprietor:

**W. H. BOX, Giant Pill
Manufacture, 161 King St.
PLYMOUTH.**

Telegrams : "Giant, Plymouth."

Awarded 2 Gold Medals and 2 Diplomas International
Exhibitions, Paris and Rome, 1914.**PRESS ADVERTISING
IS BOOMING****FULLERS**
CELERY PERLES**HOW ARE YOUR STOCKS ?**

Supplies from every Wholesaler.

**The Fuller Laboratories, 1, Crutched Friars,
London, E.C.**

Telephone : Royal 8592.

*"Multum in Parvo."***"VAPOFORM" Disinfectant**

Regd.

For disinfection of Rooms and HOSPITAL
Confined Spaces, &c. Has no injurious effects
whatever on Furniture,
Utensils, &c.Small size, capable of disinfecting
1000 to 2000 cubic ft., 8/6 per doz.
Large size, capable of disinfecting
3000 to 6000 cubic ft. 13/- per doz.*Sole Proprietors—***HARKNESS, BEAUMONT & CO., LTD.**
Wholesale Chemists, EDINBURGH.

POPULAR



RELIABLE

Safety First

BRAND

IODISED THROAT LOZENGES

A Perfect hand-made Lozenge.

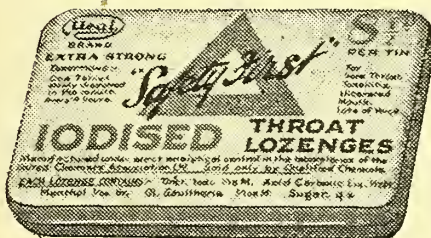
Most attractively packed in tins,
and well - designed Show
Outers.

Show matter that compels atten-
tion and sells the goods.

The Brand that gives you EXTRA PROFIT!

The Trade's Best Seller.

ORDER YOUR SUPPLIES NOW.



8 1/2 d. Size :

COSTS - - 4/6 doz.
12 doz. - - 4/3 "

1/3 Size :

COSTS - - 7/6 "
3 doz. - - 7/- "

United Chemists' Association LIMITED

(Phone 3021)

CHELTENHAM

and 4 and 6 KEITH GROVE, LONDON, W.12.

Telephone: "RIVERSIDE" 4641.

WHOOPING COUGH

A new preparation which is producing splendid results
in Whooping Cough is

ELIXIR OF EPHEDRINE

(Abbott)

Prompt relief in the spasmodic coughing and vomiting is
obtained. Average dose 1 teaspoonful night and morning.

Packed in 4 oz. bottles retailing at 3/-

Literature on request to :—

E. H. SPICER & CO. LTD.

Watford

-

-

Herts.

And at 72 Wigmore Street, W.1.

Telephones : (WATFORD 1784-1785
MAYFAIR 3667)

BESORBON

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE
FINEST REMEDY FOR CATARRH & COLD
IN THE HEAD.

Richard Dickeson & Co.

(Incorporated with Reynolds, Sons & Co., Ltd.)
57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

NIGROIDS for the Throat and Voice

Registered Trade Mark.

Sold in tins 4½d. and 1/6 each.

WHOLESALE TERMS ON APPLICATION

Sole Makers : **FERRIS & CO. LIMITED, BRISTOL**

AN OLD FASHIONED—BUT REALLY EFFECTIVE
remedy for **COUGHS, COLDS, IN-
FLUENZA** and **BRONCHIAL** troubles.

Licoricine
ACTS LIKE MAGIC

Prices 10½d., 1s. 3d. and 3s.

MANDALL & CO. Ltd., 17/23 Stepney Rd., Newcastle-on-Tyne.

TERMS.

10½d. size, 8 6 per doz.
1/3 " 12/- "
3/- " 27/- "
Less 5% dis. on 40 orders.

10½d. size, 8 1 per doz.
1/3 " 11/5 "
3/- " 25 8 "

Carriage paid on orders of
£2 and over.

A New Biological Service

We have pleasure in announcing that we have opened offices at

**REGENT ARCADE HOUSE
252 REGENT STREET, W.1**

where ample supplies of our well-known biological products are available at any time of the day or night. A complete supply service of all of the products produced in the laboratories of the Mulford Company will be maintained, and prompt and careful attention will be given to all enquiries.

Leading Products

Diphtheria Antitoxin (<i>Standard and Super-concentrated</i>)	Influenza "Cold" Sero- bacterin Mixed (<i>Sensitized Influenza Vaccine Mixed</i>)
Antipneumococcic Serum (<i>Types I, II and III com- bined</i>)	Pertussis Serobacterin Mixed (<i>Sensitized Pertussis Vaccine Mixed</i>)
Antimeningococcic Serum (<i>Polyvalent</i>)	Neisser Serobacterin Mixed (<i>Sensitized Gonococcic Vac- cine Mixed</i>)
Tetanus Antitoxin (<i>Anti- tetanic Serum</i>)	

The H. K. MULFORD CO., Ltd.

Regent Arcade House

(OXFORD CIRCUS)

252 Regent Street

London, W.1

Telephone : Regent 2567

BELTONA

The Wonderful Solvent Lotion for :—

**Arthritis, Rheumatism, Gout, Sciatica,
Lumbago, Neuritis, Colitis, Laryngitis,
and all Inflammatory Conditions.**

Stocked by all Leading Wholesalers.

Retails at **3/-, 5/- and 20/-** per Bottle (In Great Britain).

Supplies for the Irish Free State can be obtained from Mr. E. V. Hanna, M.P.S.I., 69/70, Lower Mount Street, Merrion Square, Dublin. Australia, Messrs. Berglin Remedies, Ltd., Hibernian Buildings, Adelaide Street, Brisbane. South Africa, Messrs. Macdonald, Adams & Co., Ltd., Johannesburg. India, Park Supplies Co., P.O. Box 621, Bombay.

Sole Proprietors :—

BELTONA LTD., HODDESDON, HERTS.

CHEMISTS SHOULD ALWAYS HAVE IN STOCK

**TOWLE'S
PENNYROYAL & STEEL PILLS**

Advertised all over the world.
ESTABLISHED 100 YEARS.

Sole Proprietors :

**E. T. TOWLE & CO., LTD.
TOLL ST., NOTTINGHAM**

**DISPLAY
IT AND
IT SELLS & *Sells*
Nonn FOR
NERVES**

RESTORES SELF-CONFIDENCE

NONN for MEN
(Red Cartons)

P.A.T.A.
3/- per carton

NONN for WOMEN
(Blue Cartons)

(Wholesale)
27/- doz.

Proprietors of NONN Ltd., 45 Gordon Square, London, W.C.

Petrolagar

YOU please the doctor and his patient who is your customer by always being in a position to supply 'Petrolagar' on demand. An imitation of this or any other worthy product will displease your customer, no matter how cheap the imitation is.

'Petrolagar' is the trade mark distinguishing the fine emulsion of mineral oil and agar-agar issued in four varieties, Plain, with Phenolphthalein, Alkaline and Unsweetened, manufactured only by DESHELL LABORATORIES LTD., BRAYDON ROAD, LONDON, N.16.

COLLOSOL FERROMALT

(CROOKES)



THE MOST SUCCESSFUL
IRON TONIC on the
MARKET.

Daily increasing in popularity with both the medical profession and the public. Collosol Ferromalt is now supplied in an attractive packing, admirably adapted for counter display.

Collosol Ferromalt gives a satisfactory margin of profit, and the assurance of complete satisfaction to your clients.

TERMS AND PARTICULARS FROM
THE CROOKES LABORATORIES
(BRITISH COLLOIDS, LTD.),

22 CHENIES STREET, LONDON, W.C.1

Telephone Nos.:
Museum 3663, 3697, 5757.

Telegrams:
"Colossally, Westcent, London."

Export Distributing Agents, AYRTON, SAUNDERS & CO., LTD., LIVERPOOL.

Genoxide
REGD

**PEROXIDE
OF
HYDROGEN
B.P.**

STABLE TO THE
LAST DROP.

In 3 popular sizes,
retailing at:

4 oz.	..	1/-
8 oz.	..	1/6
16 oz.	..	2/6

P.A.T.A.

**GENEROUS
MARGIN OF
PROFIT—
MINIMUM
50%**

PERFECT
PEROXIDE
OF
HYDROGEN
FOR

MOUTH
TEETH
THROAT
WOUNDS

Genoxide

8 oz.
1/6

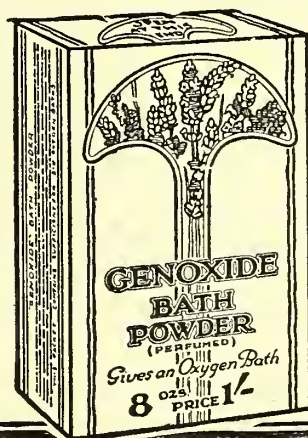
GENOXIDE BATH POWDER

A genuine Oxygen bath powder. Subtly perfumed, fully effective and packed in attractive cartons. "Genoxide" Bath Powder sells at popular prices which will increase the demand for medicated Bath Powders

RETAIL PRICES.

8 oz. 1/-
16 oz. 1/9

Terms to Trade—
7/- per dozen 8 oz.
packets, 12/- per
dozen 16 oz. packets.



GENOXIDE LTD. LUTON

N
↑
WEST ← → EAST
↓
S

SPUN'S BEST

FOR ALL B.P. OINTMENTS—PACKED OR IN BULK.

• ——— •
PACKED LINES OF EVERY DESCRIPTION

NURSERY POWDERS, LYSOLS, MALT AND OIL, FULLER'S EARTH, etc., etc.
• ——— •

YOUR ENQUIRIES WILL BE WELCOMED AND HAVE PROMPT ATTENTION.

Telephone: HOP 2422
(Two lines)

Telegrams:
"USHENSPUNA,
LONDON."

ROBERT BLACKIE

SHEN WORKS,
TOWER BRIDGE RD.,
LONDON, S.E.1.

TESTOGAN FOR MEN. THELYGAN FOR WOMEN.

*A Proven Efficient Remedy
(Formula of Dr. Iwan Bloch)*

INDICATED IN

**Impotence and Insufficiency
of the Hormones.**

CAVODENT TOOTH PASTE

Whitens the teeth—strengthens the gums.

**BISMOLAN SUPPOSITORIES AND
OINTMENT.** For the Treatment of Hemorrhoids.

ATOCIN TABLETS for Rheumatism,
Gout, etc.

For literature and other information apply to

CAVENDISH CHEMICAL CORPORATION,
137 REGENT STREET, LONDON, W.1.

PROFIT & REPUTATION

Assured by avoiding imitations and selling

“O. A. P.’s”

ORIGINAL ANTISEPTIC PASTILLES)

As prepared by WM. ALFRED JONES
late Joint Proprietor of the

LIVERPOOL THROAT HOSPITAL

Samples and prices on application

Sole Agents, WM. ALFRED JONES LIMITED,
West India House, Maryland Street, LIVERPOOL.

ESTABLISHED OVER 60 YEARS

PERRYS POWDERS

FOR CHILDREN'S AILMENTS



Wholesale from PERRYS POWDERS, Ltd., LEEDS

GOODALL'S

WE make and pack practically all the usual chemist lines—and many special ones of our own that are distinctly unusual. Especially we ask that you allow us to show you what we can do in



**Waterglass Vitamine Malt
Olive Oil Health Salts
Salines Seidlitz Powders**

The 'Velva' Series of popular own-name lines (illustrated alongside).

The Ku-Bist Series of Toilet Creations.

14 beautiful toilet lines very keenly priced.

WHY NOT LET US SHOW YOU WHAT WE ARE OFFERING?

Ask for a contract price and samples of

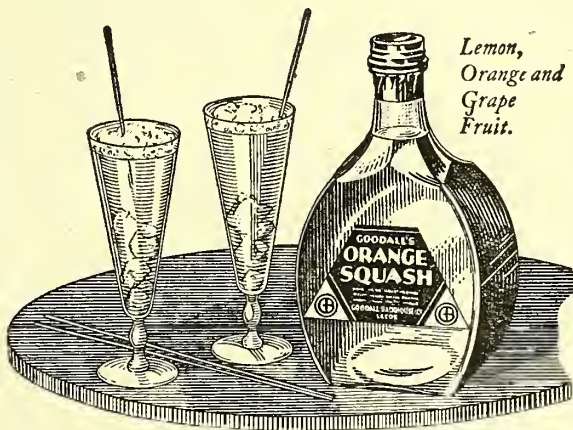
anything you need, or, better still, allow us to send a representative to call with specimens and every detail.

Illustrated Lists sent gladly on request.

Goodall's Fruit Squashes—a new line which our friends say is wonderful.

Perfection in Own-Name work.

Our printer simply cannot give you other than perfectly satisfactory and suitable own-name work, for we have none but the best of modern type, perfectly chosen for own-name purposes and expertly set. The result is own-name labels that look what they should—that give our lines the finish and perfection you like to see on the things that bear your name, and for which you accept personal responsibility.



GOODALL, BACKHOUSE & CO.

LEEDS.

POISONS and PHARMACY ACT.

Privy Council Order, Jan. 1, 1921.

DANGEROUS DRUGS ACT, 1920.

Regulations of May 20, 1921. (Operative Sept. 1, 1921.)

**Dr. J. Collis Browne's
CHLORODYNE**

is not affected by above Order or Regulations.

It does not require purchaser's signature.

Proprietors: J. T. DAVENPORT, Ltd., 83/87 Union Street, S.E.1**THIS IS
THE LINE
THAT SELLS
AND SELLS**

The amazing success of the famous Snowfire Tablet is due to consistent advertising and widespread recommendation. The family standby for chapped hands—always a big seller. Other Snowfire lines include—Snowfire Cream, Snowfire Face Powder, Snowfire Jelly, Snowfire Shampoos, Snowfire Toilet Soaps, Snowfire Shaving Sticks.

**Snowfire
TABLET**

F.W. Hampshire
& Co. (1927),
Ltd., Riverside
Works, Derby.

Agents: India—Messrs. Siqueira & Son, 121,
Fort St., Fort, Bombay, India. Australia—
Messrs. Salmon & Spraggan (Australia), Ltd.,
218, Kent St., Sydney, N.S.W., Australia.

"ONZO" OINTMENT

"ONZO" is a medicinal ointment made from animal fats and curative substances. It has remarkable drawing power in removing unhealthy matter from the tissues.

Recommended for—CHILBLAINS, CORNS, SPRAINS, SEPTIC WOUNDS & SORES, DRY or WET ECZEMA, VARICOSE ULCERS, BURNS, Etc., Etc.

Price 21/- (wholesale), 27/- (retail), per dozen jars
Trade Enquiries to—

**ONZO Ltd., 188 St. Vincent Street,
GLASGOW.**

ERGOAPIOL (Smith) PROTECTIVE MARK

Patented in U.S. and Foreign Countries.

Ergoapiol (Smith) is now identified by the letters M.H.S. in the gelatin on the inside of each capsule. These letters are not visible from the outside, but they are plainly discernible in the gelatin when the capsule is cut in half.

MARTIN H. SMITH CO. NEW YORK, N.Y.

British Agents—
THOS. CHRISTY & CO., 4-12 Old Swan Lane, London, E.C.4

10% BONUS

on
VENO'S  **LIGHTNING**
COUGH CURE
and
BEECHAM'S
POWDERS

**FROM NOVEMBER 19th,
TO DECEMBER 5th, 1928.**

In order to stimulate interest in our Winter Lines—Veno's Lightning Cough Cure and Beecham's Powders—we make the following 10% Bonus Offer from November 19th to December 5th :—

If you will send before December 5th a Mixed Order for Beecham-Veno Proprietaries, and include therein VENO'S LIGHTNING COUGH CURE to the value of not less than £2 10s. 0d., and BEECHAM'S POWDERS to the value of not less than £2 10s. 0d., we will allow you, in addition to usual discounts,

**AN ADDITIONAL BONUS OF 10% ON THE
AMOUNT OF YOUR ORDER FOR VENO'S
COUGH CURE AND BEECHAM'S POWDERS.**

*These Orders can be passed through your wholesaler
on exactly the same terms.*

**BEECHAMS PILLS, LIMITED,
CHESTER ROAD, MANCHESTER.**

Compound Syrup of HypophosphitesTRADE **"FELLOWS"** MARK

Compound Syrup of Hypophosphites "FELLOWS," in addition to being in constant and increasing demand, adds distinction to a chemist's show window. It is a symbol of progressiveness and reliability.

Tablets Laxative "FELLOWS"*"The Tablet With a Pedigree"*

IN TWO SIZES, NAMELY:

LARGE BOTTLES
(Containing 100 Tablets)

SMALL BOTTLES
(Containing 40 Tablets)

Fellows Medical Manufacturing Co., Inc.

26 Christopher Street

New York City, N. Y.

LABORATORIES:

Mexico City, Mexico; Montreal, Canada; Paris, France; Milan, Italy;
Barcelona, Spain; Berlin, Germany.

BRITISH PRODUCTS**FERRIGEN**

AND

FERRIGEN WITH STRYCHNINE

Ampoules of Iron Arsenate, and Iron Arsenate with Strychnine, for painless intramuscular injection.

Both come under **PART 2**
of the Schedule of Poisons.

REDUCED PRICES:

Boxes of 12 Ampoules - - 3/6
" " 6 " - - 2/-

(Subject to the usual trade discount.)

Prepared and extensively advertised by—

ROBERTS & CO.

Pharmaciens to H.M. the King,

76 NEW BOND STREET, LONDON, W.1

The 'Yadil'
boom has
begun. Are
you participating?

Don't let the man in the next
street do all the business.

We shall be happy
to help you if
you will write us.

YADIL PRODUCTS (1925) LIMITED
Sicilian House, London, W.C.1

A CHEMIST'S TEST of 'ASPRO' Window Display Against Competitive Lines

RESULT: 'ASPRO' DISPLAY Sold 10 times more than competitors'

We are frequently pointing out the wonderful pulling power of 'ASPRO' Window Display on account of its linking up with continuous and ever-increasing publicity. The following test of a display given by Mr. William Danson, M.P.S., will interest all chemists who wish to increase their business. The following letter is self-explanatory.



William Danson, M.P.S.

Chemist and Druggist.

*301, Regent Road,
Salford.*

Sept. 24th, 1928

Messrs. Gollin & Co.
Gentlemen,

Recently I made a display of 'ASPRO' along with two other brands of Aspirin Tablets. It was remarkable that during the period I sold about 6 Dz. 'Aspro' but only about $\frac{1}{2}$ Dz. of the other two together.

Yours faithfully,

William Danson

LOOK! Read This

'ASPRO' has a Tremendous Power to Build up a Chemist's Business

The above test should demonstrate what a great power 'ASPRO' Publicity is to help the Chemist. It is not only on account of the actual 'ASPRO' that it usually sells, but also on its great value in bringing customers into the Chemist's shop who would not otherwise have come in. Every time you put an 'ASPRO' window display in you connect up with a £250,000 continuous advertising activity just the same as if you put your own name at the foot of the advertisements. Why not write us for a window display to-day, also take advantage of the liberal bonus terms shown below whereby you can make an extra 17% profit?



Buy 'ASPRO' on Bonus Terms and Get 17% EXTRA PROFIT

Just have a look through your purchases of 'ASPRO' and you will find that you are in a position to buy on Bonus terms. Buying on Bonus terms means extra profit averaging 17% to you. So why not place your next order through your Wholesaler on Bonus terms?



WHAT THE BONUS IS

BONUS on 10's { One Gross Order - - Bonus 1 dozen packets
Half Gross Order - - Bonus $\frac{1}{2}$ dozen packets
Half Gross 10's is minimum order
accepted for Bonus purposes.

BONUS on 25's { One Gross Order - - Bonus 2 dozen packets
Half Gross Order - - Bonus 1 dozen packets
Quarter Gross Order - Bonus $\frac{1}{2}$ dozen packets
Quarter Gross is minimum quantity.

NO BONUS ON 60's.

CONDITIONS

The only conditions made are that the Chemist who buys on these terms undertakes to show Advertising matter in his shop window for 14 days and sell at advertised prices. As 'ASPRO' is so extensively advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO' but should enable the Chemist's staff to make other sales to the customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., in single lots 6 dozen 10's or 3 dozen 25's will qualify the Chemist

HOW TO ORDER BONUS PARCELS

We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler so that we may forward the order on, and the Bonus will be supplied direct by us.

ORDINARY PRICES for { 6d. size containing 10 tablets, 4/6 dozen } NOTE.—2/6 size contains
'ASPRO' are as follows: { 1/3 size containing 25 tablets, 11/6 dozen } 10 extra tablets.
2/6 size containing 60 tablets, 21/- dozen

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents—GOLLIN & CO. PTY. Ltd. ('Aspro' Dept.), SLOUGH, Bucks. Phone: Slough 608.

No proprietary right is claimed in the method of manufacture or the formula.

PURE RUSSIAN LIQUID PARAFFIN MEDICINAL B.P.

ALL GRAVITIES.

HIGHEST VISCOSITY.

PURE RUSSIAN "JASMINE" BRAND WHITE OILS

CHEMICALLY PURE.

WATER WHITE.

ODOURLESS.

FOR MANUFACTURING PURPOSES.

*Competitive Prices.**Best Quality.**Immediate Delivery.*

THE PURE RUSSIAN LIQUID PARAFFIN CO., LTD.

80 BISHOPSGATE, LONDON, E.C.2

Telephone : LONDON WALL 7132-7133.

Telegrams : "INVATORE, STOCK."

LIQUID

Sterns B.P.
is guaranteed to be the
finest quality of Liquid
Paraffin produced. It has
the patronage of the largest
wholesalers, the recommendation
of the Medical profession, and is
used in the principal Hospitals in
preference to all other kinds.

STERNS
LTD.,
80 Royal London House,
Finsbury Square,
E.C.2.

PARAFFIN

THE FINEST

**ADEPS
LANÆ**

B.P.

Hydrous (Wool Fat) Anhydrous

IS PURCHASED FROM

CRODA LIMITED

**RAWCLIFFE BRIDGE,
GOOLE, YORKS.**

Telephone : SNAITH 34.
Telegrams : CRODA, GOOLE.

London Office—
BURNLEY HOUSE, WILLESDEN, N.W. 10.
Telephone : WILLESDEN 0731.
Telegrams : ARISMERCHA, WILROAD, LONDON.

CLARKE'S BLOOD MIXTURE & OTHER PREPARATIONS

Wholesale Prices.

	SIZES.	PRICE PER DOZEN.
Clarke's Blood Mixture	3/- & 12/-	£1:7:0 & £5:8:0
„ Miraculous Salve	1/3, 3/- & 5/-	11/-, £1:7:0 & £2:4:6
„ Special Aperient Pills ..	1/3, 3/- & 5/-	11/-, £1:7:0 & £2:4:6
„ Patent Skin Lotion	1/3	11/-
„ Medicated Soap	1/-	9/-

Orders: Minimum quantity £16 : 4 : 0 value.
FREE CASES. Carriage paid upon orders of £100.

All Wholesale Houses keep a large stock of our Preparations and can supply smaller orders promptly.

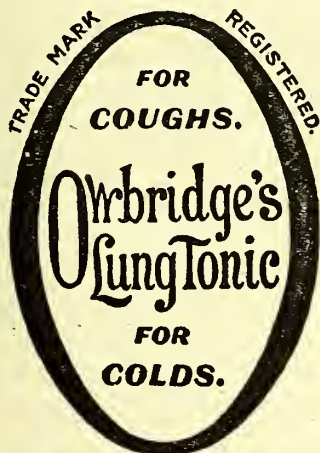
Minimum Retail Selling Prices: 1/-, 1/3, 3/-, 5/- & 12/- Face Value, giving a **PROFIT** of $33\frac{1}{3}\%$ on cost to Distributors.

An attractive Showcard and Dummies supplied on application.

Trade Mark: "BLOOD MIXTURE." Regd. No. 3275.

Sole Proprietors:

THE LINCOLN & MIDLAND COUNTIES DRUG CO., LTD.
Park Street, LINCOLN.



COST { 1 gross 1/3 size and
(c.w.o.) 1 doz. 3/- " £7 19 0
(carr. paid)

SELLING PRICE - £10 16 0

PROFIT - £2 17 0

You run no risk with a big stock of this famous remedy.

It is always in great demand and quick sales are certain.

Just hand it over the counter and take your profit.

PRICE PROTECTED AT FACE VALUE

W. T. Owbridge, Ltd., The Laboratory, Hull.



*When you require
Medicinal Non-Freezing*

COD LIVER OIL B.P.

be sure to only get the
guaranteed genuine

LOFOTEN

Quality

"VITA" BRAND

produced by

RAGNAR SCHJØLBERG,
Bodø, Norway

entirely in their own large and most modern plant of latest design, from finest possible obtainable quality Pure Lofoten Cod Liver Oil.

PROTECT YOURSELVES

against inferior or mixed oils by placing your orders for "Vita" Brand under our guarantee.

STOCKS ALWAYS HELD IN LONDON

Full particulars and samples from :

BRUCE STARKE & Co.

16 Water Lane,
Great Tower Street,
LONDON, E.C.3

SOLE AGENTS FOR U.K.

*Telegraphic Address: "Starkemad, Bilgate, London."
Telephones: Royal 0137 & 0138.*

ORDER NOW
FOR WINTER
TRADE.



MASON'S Ginger Wine Essence

QUICK
SALES

GOOD
PROFIT

Liberal Window Show Allowance
Artistic Display Material

SEND FOR PRICES.

NEWBALL & MASON, LTD. NOTTINGHAM

Up! Up! Up!

go the Horlick's sales.
Extensive advertising on
new lines is increasing
the demand every day.
Are you displaying
Horlick's prominently?

HORLICK'S FITNESS

Made in England by
HORLICK'S MALTED MILK CO., LTD.,
SLOUGH, BUCKS.

Glaxo

GLAXO FOOD PRODUCTS.

	RETAIL	NET TRADE PRICE
GLAXO—Standard Full-cream	1/6	14/5 per doz.
GLAXO—Standard Full-cream	2/6	24/- per doz.
GLAXO—Standard Full-cream	4/6	43/2 per doz.
GLAXO—Standard Full-cream	7/6	72.- per doz.
PRESCRIPTION (Humanised)		
GLAXO ..	2/-	19/3 per doz.
PRESCRIPTION (Humanised)		
GLAXO ..	4/-	38/5 per doz.
GLAXO MALTED FOOD ..	1/3	12/- per doz.
GLAXO MALTED FOOD ..	2/4	22/5 per doz.
GLAX-OVO ..	1/6	14/5 per doz.
GLAX-OVO ..	3/3	31/2 per doz.
GLAX-OVO ..	6/-	57/7 per doz.
GLAX-OVO (7 lb. tins)	16/6	13/3 per tin
GLAX-OVO MIXER ..	2/-	1/7 each

★ Known by nurses as Sunshine Glaxo.

GLAXO TOILET REQUISITES.

	RETAIL	NET TRADE PRICE
*GLAXO BABY SOAP (3 in box) ..	1/6 per box	13/6 per doz.
GLAXO BABY CREAM ..	1/6 per tube	13/6 per doz.
GLAXO BABY POWDER ..	1/- per tin	9/- per doz.

* In Irish Free State soap prices are one-third more

Ostelin

VITAMIN D PREPARATIONS.

	RETAIL	TRADE DISCOUNT
OSTELIN in GLY-CERIN ..	2/6 per 8 c.c. phial	25 per cent.
Ditto in bottles of 2, 4, 8, or 16 oz.	6/3 per ounce	25 per cent.
VETERINARY OSTELIN ..	4/6 per ounce	25 per cent.
OSTELIN TABLETS	2/6 per bottle of 45	25 per cent.
OSTELIN TABLETS	12/6 per bottle of 250	25 per cent.
OSTELIN EMULSION or CREAM	2/6 per 8 oz. bottle	25 per cent.
OSTELIN & PARATHYROID TABLETS ..	8/9 per bottle of 100	25 per cent.
OSTELIN AM-POULES (1 c.c.)	3/- per box of 3	25 per cent.
OSTELIN AM-POULES ..	8/6 per box of 10	25 per cent.
ELIXIR OSTELIN for dispensing ..	5/8 per ½ lb. bottle	25 per cent.
ELIXIR OSTELIN for dispensing ..	10/- per 1 lb. bottle	25 per cent.
OSTOMALT (Ostelin, Malt Extract and Orange Juice)	2/6 per ½ lb. jar	20 per cent.
OSTOMALT (Ostelin, Malt Extract and Orange Juice)	4/- per 1 lb. jar	20 per cent.

Ostelin is now entirely tasteless.

Order through your usual Wholesaler

maltINE

MALTINE PRODUCTS	SMALL	LARGE	HOSPITAL SIZE
MALTINE, Plain ..	2/3	4/-	15/6
MALTINE with COD-LIVER OIL (30%)	2/3	4/-	15/6
MALTINE with CAS-CARA SAGRADA	3/-	5/6	22/6
MALTO-YERBINE (fluid) ..	3/-	Nil	30/-
MALTINE with CRE-OSOTE ..	3/-	5/6	22/6
MALTINE with PEP-SIN and PANCREA-TIN ..	3/-	5/6	22/6

TRADE DISCOUNT OFF ABOVE PRICES, 25 per cent.

MALTINE is a malt extract of high diastatic power and contains Vitamin B in notable proportion. In combination with cod-liver oil certified to be exceptionally rich in Vitamins A and D, it presents a completely proportioned food of great therapeutic value. MALTO-YERBINE presents MALTINE in conjunction with an active extract of Yerba Santa, thus providing an admirable nutritive and expectorant mixture which contains no opiates.

Glaxo Feeder

AND ACCESSORIES.

	RETAIL	NET TRADE PRICE
GLAXO COMPLETE FEEDER (8, 4, or 2 oz.)	1/6 in carton	13/6 per doz.
GLAXO SPARE FEEDER (8 oz. only) ..	1/- in carton	9/- per doz.
GLAXO TEATS (7 varieties) ..	4½d. each	3/4½ per doz.
GLAXO VALVES ..	3½d. each	2/7½ per doz.
ALUMINIUM FOOD MEASURE ..	6d. each	4/6 per doz.
FEEDER MOP ..	4d. each	3/- per doz.
*MATER NITY BELT (2 sizes) ..	7/6 each	6/- each

* Not sent on approval

GLAXO TEATS.—In addition to the usual teat pierced with a single square hole, there is a fine-hole teat with a very small opening; also a premature teat for use with small feeders, and a "blind" teat which can be pierced with a needle as desired. Other varieties are pierced with one, three, or five-leech-bite slits.

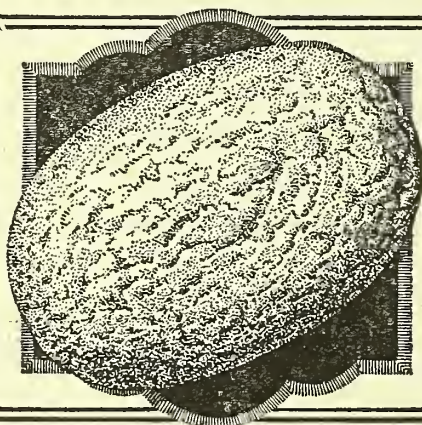
LYCO*Pure Culture
Yeast Tablets**Literature and Samples supplied on request by:***STANDARD YEAST
CO., LTD.****LONDON
CHISWICK
W.4****Guarantee**

Our Lyco Yeast Tablets are expressly guaranteed to contain pure Culture Yeast only and no addition of drugs or any other ingredients is made in the preparation of Lyco Yeast Tablets.

*Build up your Strength**Terms and full particulars on application to the Sole Manufacturers:***THE STANDARD YEAST CO., LTD.**

Lamb Distillery - - - CHISWICK, LONDON, W.4

Telephone: CHISWICK 3370-71.

*Two thirds
actual size***Bath Rusks**

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by
CARR'S of Carlisle
The Oldest House in the Trade

ESTABLISHED 1793.

The Best and
Safest Infants'
Medicine of
over 130 years'
standing.

**ATKINSON & BARKER'S
INFANTS' PRESERVATIVE**

Does not
contain
any
Scheduled
Poison.

ROBERT BARKER & SON, LTD., 13 WESLEY STREET, C. on M., MANCHESTER

The
Famous Natural Aperient Water.

Hunyadi János

An extensive propaganda is being carried out among the Medical Profession and the general public which is resulting in a largely increased demand for this world-renowned NATURAL Aperient Water.

Prices to the Trade :

24/- per doz. large bottles - or 48/- per case of 25
18/- „ „ small „ - or 72/- „ „ 50

Net, Carriage Paid.

Minimum Retail Prices :

2/6 per large bottle.

2/- per small bottle.

Hunyadi János has for more than fifty years been recognised as the best of the **NATURAL** mineral waters containing sulphate of soda and sulphate of magnesia. Its laxative action is sure but gentle; it stimulates the liver and cleanses the blood.



Doctors are constantly prescribing Hunyadi János in preference to ordinary aperients, whilst many of your customers who know its value are already using it. Traders would therefore find it to their advantage to keep a stock of this famous **NATURAL** Aperient Water.

Sole Wholesale Agents :

INGRAM & ROYLE, LTD.

BANGOR WHARF

45 BELVEDERE ROAD

LONDON, S.E.1

19 South John Street, Liverpool

Bath Bridge, Bristol

"MOSANS"

THE

Original, Non-Greasy, Odourless

**QUININE
PESSARIES**A preparation of reliability and
repute.**15/-**per dozen
boxes.**ORDER THROUGH USUAL WHOLESALER**Avoid Imitations and
see the No. 332117 on each box.**ORDER NOW—For
Your Xmas Trade****Reliance**

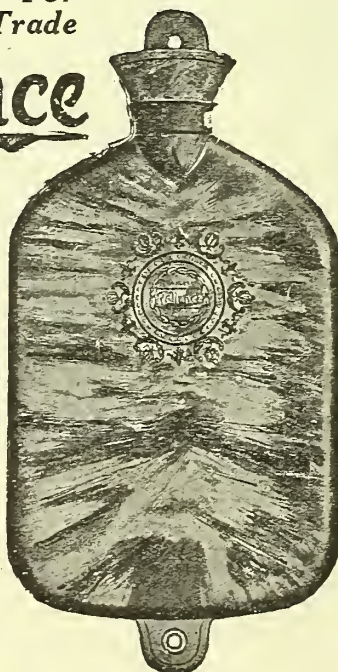
REGD. TRADE MARK

Seamless-Moulded

**HOT
WATER
BOTTLES**British made from pure
plantation rubber and
perfectly vulcanised.

Unique Designs.

Beautiful Colourings.

Buy British Hot Water
Bottles made in London
—by the Firm with the
Maintained Fixed Prices
which prevent destruc-
tive price cutting.**Reliance Rubberware Ltd.**

WHOLESALE AND EXPORT WAREHOUSES:

39-40a ALDERSGATE STREET, LONDON, E.C.1
Factories: Formosa Street, and Amberley Road, Paddington, W.9**The "EVERSAFE"**

PATENTED EVERYWHERE

**BABY
PACIFIER**WITH THE NEW
COUPLING and**REDUCED
PRICES**HAS SECURED
SALES BEYOND
ALL PREVIOUS
RECORDS.THE ONLY
PACIFIER WITH
INDIVIDUAL
WARRANTY.**All over the World**They are Acclaimed
the Favourite of
HIS MAJESTY THE BABY**REDUCED RATES—**No. 2. 3½d. size 2/1 doz.
No. 2c. 4½d. " 2/8½ "
No. 3. 6d. " 3/- "Sample Order, 3 dozen
assorted, sent 7/9 post free.Obtainable from all Wholesalers
or direct from Patentees.**ORDER YOUR
STOCK AT ONCE.
GOOD PROFITS
ASSURED YOU.****F. SCHUTZE & CO. Ltd.****BLACK BULL WORKS, LONDON, N.7****To increase your
CRÊPE BANDAGE sales
— display****NORVIC
BLUE CARTON
CRÊPE BANDAGES**

Satisfied customers are an asset.

PROTECTED PRICES.

2" 2½" 3" 3½" 4"

Cost: 12/- 15/3 18/3 21/3 24/3

Sell: 1/6 1/11 2/3 2/8 3/-

Stocked by all the leading wholesalers

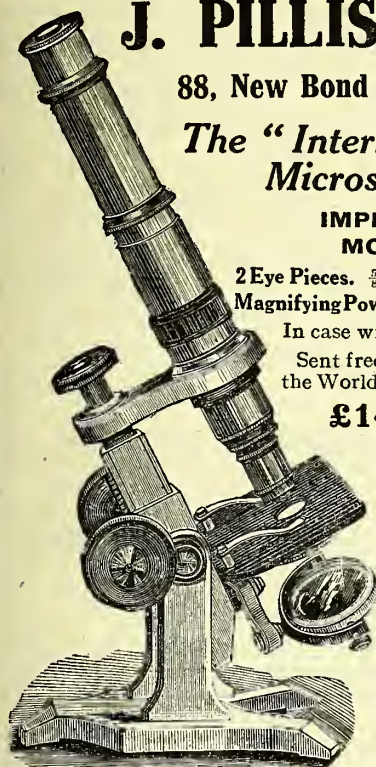
SOLE MANUFACTURERS:

Grout & Co., Ltd., 35 Wood St., London, E.C.2

**Dr. SCHOLL'S
TOE-FLEX**Is the recognised corrective device
for crooked big toes, bunions,
enlarged, painful joints and over-
lapping toes. Its enormous sale
is being continually increased by
a steady flow of national adver-
tising in all the most widely cir-
culated newspapers and magazines.
Dr. Scholl's Toe-Flex shows a
satisfactory margin of profit.
Made of pure Para rubber in three
sizes. Retail price, 2/- each.

Write to-day for full particulars.

The SCHOLL MFG. CO., LTD.
Granville Square, London, W.C.1.



J. PILLISCHER

88, New Bond St., W.1.

The "International"
Microscope

IMPROVED MODEL

2 Eye Pieces. $\frac{5}{8}$ & $\frac{1}{2}$ Object Glass.
Magnifying Power 50 to 420 diams.

In case with lock and key.

Sent free to any part of
the World on remittance of

£14 : 6 : 0

"The Lancet" says:
"We can conscientiously recommend it to all who really want a useful instrument."

Enquiries invited
for all other kinds
of Microscopes,
Optical and other
scientific instruments.

15 GOLD MEDALS
16 GRAND PRIX

PERKEN, SON & CO., LTD.

Established 1852.

Contractors to H.M.
Government.

THE
"MATER"
CLINICAL
REGD.



ALL
TYPES
OF
CLINICAL
AND OTHER
THERMOMETERS

Price List on Application.

94 HATTON GARDEN,
LONDON, E.C.1

Telephone : 0724 Holborn.
Telegrams : "Optimus, Smith, London."

J. H. HAYWOOD, Ltd.

Surgical Appliance Manufacturers,

Castle Gate, NOTTINGHAM

Telephone: 40488 NOTTINGHAM.

Established 1833

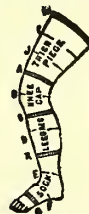
SPECIALITIES FOR WINTER.



ELASTIC HOSIERY (Seamed and Seamless), TRUSSES (Spring and Elastic), SUSPENSORY BANDAGES, BRACES, LADIES' AND GENT'S ABDOMINAL BELTS for support and warmth, made in felt, flannel and fleecy.



CHEST PROTECTORS, SLEEPING SOCKS, INDIA-RUBBER AND AIR-PROOF GOODS, NURSING REQUISITES, DRUGGISTS' SUNDRIES, &c.



PRICES ON APPLICATION



Advertising Balloons

SQUEAKERS,
DYING BOARDS,
SWANS, BIRDS,
ELEPHANTS, &c.

WHOLESALE & EXPORT
ENQUIRIES INVITED.
WE ARE ACTUAL MANUFACTURERS

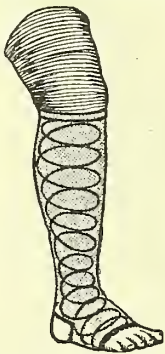
JOSEPH HARRIS & COMPANY

RUBBER WORKS, BROADHEATH, ALTRINCHAM.

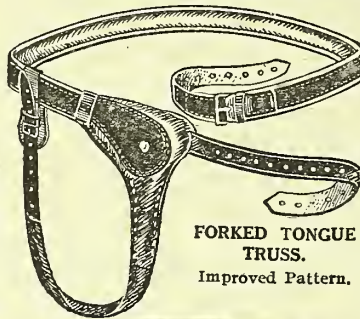
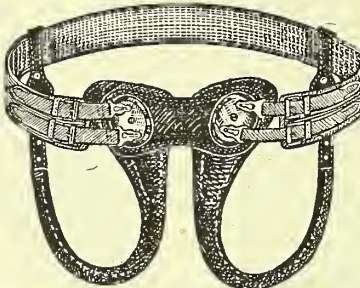
A VERY EFFECTIVE
FORM OF ADVT.
SPECIAL DESIGNS
SUBMITTED.

**SURGICAL
HOSIERY**

Seamed and Seamless.

**CRÉPE
VELPEAU
BANDAGES**

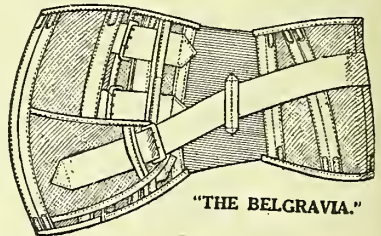
WE ARE SOLE AGENTS.

TRUSSES Spring and Elastic.FORKED TONGUE
TRUSS.
Improved Pattern.

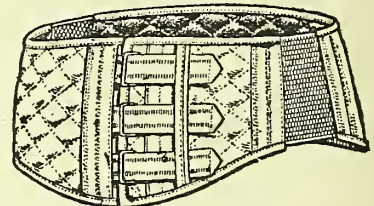
DOUBLE SCROTAL ELASTIC TRUSS.

ANY PATTERN.

ALL QUALITIES.

**ABDOMINAL BELTS
ABDOMINAL SUPPORTS
WOVEN ELASTIC CORSETS
SUSPENSORY BANDAGES**

"THE BELGRAVIA."



"THE LUMBAGO."

MANUFACTURED ON THE PREMISES AT CROWN ROAD WORKS.

THE R. H. HEWARD CO., SURGICAL APPLIANCE
:: MANUFACTURERS :: **TWICKENHAM.****MONARCH SEAL QUININE PESSARIES—Full Strength Guaranteed
CHECK PESSARIES—Solid, Air and Spring Rims**

INSIST ON WIMACO MONARCH SEAL BRAND (Regd.). THERE IS NO SUBSTITUTE FOR WIMACO.

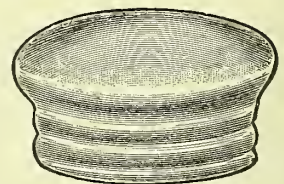
WINCHESTER MANUFACTURING CO., LTD., ISLEWORTH, MIDDLESEX**WM. WARNE & CO. LTD.**

29 GRESHAM STREET, E.C. 2.

*India Rubber Manufacturers,*Surgical, Chemical, Domestic Articles, Syringes,
Water Beds, etc.**POWDER
BELLOWS****Baker Metal Stopper Co. Ltd.**RELIANCE STOPPER WORKS
261 Icknield St., BIRMINGHAM.

Telegrams: "Screwcap, Birmingham."

Telephone: Northern 1562.

ALUMINIUM BOXES**SCREW CAPS**

in ALL Metals

Including Nickel Silver and
Gilt for Face Cream Pots,
and for frozen Cologne
containers.

De Luxe ART. SILK Bandages & Binders

WASHABLE and DOUBLE STRETCH

Made of High-Class Artificial Silk, Wool and Cotton

**LIGHTER — MORE HYGIENIC — MORE COMFORTABLE
AND VERY ELASTIC**

"Crêpsyl"

(WOVEN CRÊPE)

AND

*Both materials in
cream and flesh and
at same prices.*

"Silwick"

(WOVEN STOCKINETTE)

BANDAGE widths from 2 inch to 4 inch. Prices from 2/- to 4/- each

BINDER widths from 4 inch to 15 inch. Prices 4/- to 15/- each

(All binders reinforced to prevent sagging)

ENQUIRIES AND SAMPLE CUTTINGS FROM THE MAKERS

H. W. LAKE Ltd., 6 & 7 C.D. Redcross St., London, E.C.1

SUPPLIES FROM USUAL WHOLESALERS

GARDINER'S OVERALLS

FOR

Chemists and Druggists

Jackets and Coats of very superior quality, made from the most reliable materials, smartly cut and thoroughly well finished in every detail.

WHITE DRILL JACKETS	...	...	6/11, 8/11, 10/6
KHAKI DRILL COATS	...	6/11, 8/11, 10/6, 12/6, 14/6	
WHITE DRILL COATS	...	9/6, 12/6, 13/6, 15/6	
BLACK DRILL COATS	...	...	15/6
UNBLEACHED COATS	...	...	8/6

STOCK SIZES: 34 to 44 chest measure over waistcoat. Special pockets and little adjustments can be made without extra charge. POSTAGE on single coat 9d., but 20/- orders upwards carriage paid. SPECIAL PRICES FOR LARGE QUANTITIES.

GARDINER

& CO. (The Scotch House), LTD.

1,3,5 COMMERCIAL RD., LONDON, E.1.

Telephone: Bishopsgate 6751

Established 1839

BRANCHES:

Deptford, Edgware Road, Woolwich
Clapham Junction and Knightsbridge.

Best sellers
The public is asking
for **ZEAL**

**CLINICAL
THERMOMETERS**

because they are:-

**GUARANTEED TO
STAY ACCURATE**

**CONSISTENTLY
ADVERTISED**

Made by

ZEAL

—the name the
public knows.

G. H. ZEAL, LTD.,
75 & 77, St. John St., London, E.C.1.



BEATSON, CLARK & CO.
LTD.

Chemical and Medical Glass Manufacturers

ROTHERHAM, YORKS.

Telegrams - - - "BEATSON, ROTHERHAM."

**SHOP ROUNDS, OIL ROUNDS,
POISONS, SYRUPS & ETHERS**

WITH AND WITHOUT RECESS LABELS.

ESTABLISHED 1751.**CELLOPHANE**

The ideal transparent wrapping absolutely harmless, air and grease proof, as used by all the leading Perfumers, Soap Manufacturers, etc., etc., for wrapping Soap, Drugs, Tablets, Bath Crystals, Perfumery, Surgical Dressings, Sponges, Puffs, Soothers, Tooth Brushes and all Articles of Toilet.

Cellophane can be had in sheets, all sizes and colours; also in the shape of Bags, Discs, Envelopes, printed or not, allowing the contents to be seen by transparency.

Cellophane wrapped goods look better—keep better—sell better.

Cellophane protects, beautifies and adds the quality touch.

Prices, Samples and Particulars from
The CELLOPHANE COMPANY LTD.
7, 8 and 9 Bird Street, LONDON, W.1

Also 305-7 PRODUCE EXCHANGE, MANCHESTER.
35 MILLER STREET, GLASGOW.

**SCIENTIFIC
MEDICAL &
SURGICAL***Wholesale
& Export
only***GLASSWARE**

Shields, Eye & Nasal
Douches, Syringes &
Laboratory Glassware.

**FOREIGN COMPETITION
FULLY MET.
INQUIRIES INVITED.**

H. J. POULTEN, Glassblower
47a REGINALD ROAD, FOREST GATE, E.7

'Phone: MARYLAND 3759.

**BUSSELL'S
BOTTLE CAPS**

Dry. Self-fixing. All sizes
FINEST QUALITY AND APPEARANCE.

T. C. Bussell

47 MARK LANE - - LONDON, E.C.3

TELE.: Royal 8327

1 grade only

the Highest

EACH of the many thousands of U.G.B. Medical Bottles produced daily at our Works is subjected to careful inspection. It has to conform in every detail to the U.G.B. Standard of Perfection.

1. Even Corkage
2. Reinforced Lip
3. Rounded Shoulders
4. Accurate Capacity
5. Rounded Corners
6. Accurate Graduation

That is why you can trust all Medical Bottles bearing the U.G.B. Registered Trade Mark at the base. They are all of one grade only—the highest—resulting from the high degree of technical skill in manufacture and the careful examination of each bottle before packing—all faulty bottles being rejected.

WARNING.—Stipulate U.G.B. Medical Bottles when ordering, to get the best.

UNITED GLASS BOTTLE

MANUFACTURERS · LIMITED

The largest manufacturers of Glass Bottles in Europe:

Head Offices:

40/43 NORFOLK ST., STRAND, LONDON, W.C.2

Telephone: Central 8080 (10 lines).

Telegrams: "Unglaboman, Estrand, London.

Works: Charlton, London; Castleford, Yorks; St. Helens, Lancs.; Hunslet, Leeds; Seaham Harbour, Durham.



Look for **SPECIAL ANNOUNCEMENT** regarding
U.G.B. MEDICAL BOTTLES in **DECEMBER**



We make

GLASS BOTTLES OF EVERY DESCRIPTION

(Hand or machine made)

Ask us to quote for

**EMULSION.
EMBROICATION.
DISPENSING.
FEEDING BOTTLES.**

&c., &c.

Immediate delivery of well made, perfectly
finished bottles at competitive prices.

Wholesale Only.

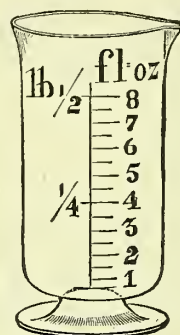
BUY BRITISH BOTTLES !

Regd. Office:

**Albert Glass Works,
HUNSLET, LEEDS.**

Tel. Address: Tel. Nos:
"Feeders Phone Leeds. 27047, 23080 Leeds

TAYLOR'S



MEASURES

OVER 50 YEARS REPUTATION
F.H. TAYLOR & SONS LTD
131 SEVEN SISTERS' ROAD, LONDON, N.7
(WHOLESALE ONLY)

KARL HÖLL A.-G.

Langenfeld, near Cologne, Germany
EXPORT TO ENGLAND SINCE 1884.

Manufacturers of:—

TUBES of all kinds,
plain and decorated.
SPRINKLER TOPS of
all sizes and styles.



IMPORTANT: When asking
for quotations send samples already used and
state quantities required. Goods will arrive
in 3-4 days with direct steamer from Cologne.

ADVERTISING TAPE

ADVERTISE
YOUR
SPECIALITIES
ON ALL
YOUR
PARCELS



THE BEST &
SMARTEST
TAPES
ON THE
MARKET
Send for Samples

P.P. PAYNE & SONS, CASTLE GATE, NOTTINGHAM

Let the appearance spell intrinsic value

The more attractive your goods the better they will sell, naturally. Let their appearance spell intrinsic value and reap the benefit of bigger sales and accordingly bigger profits.

The "Viskap" gives that final touch of attractive completeness to bottled goods that makes the package "pay its way," especially in medical and toilet products. The "Viskap" placed over the bottle-neck wet, dries with an elegant finish and assumes the shape of any particular cork, fancy stopper or sprinkler.

Make your bottles look better with

VISKAP

HERMETIC SELF-FIXING BOTTLE CAPS

The "Viskap" provides an inexpensive method of capping; it is simplicity in itself to put on, is a perfect hermetic seal that is grease-proof, spirit-tight and absolutely odourless.

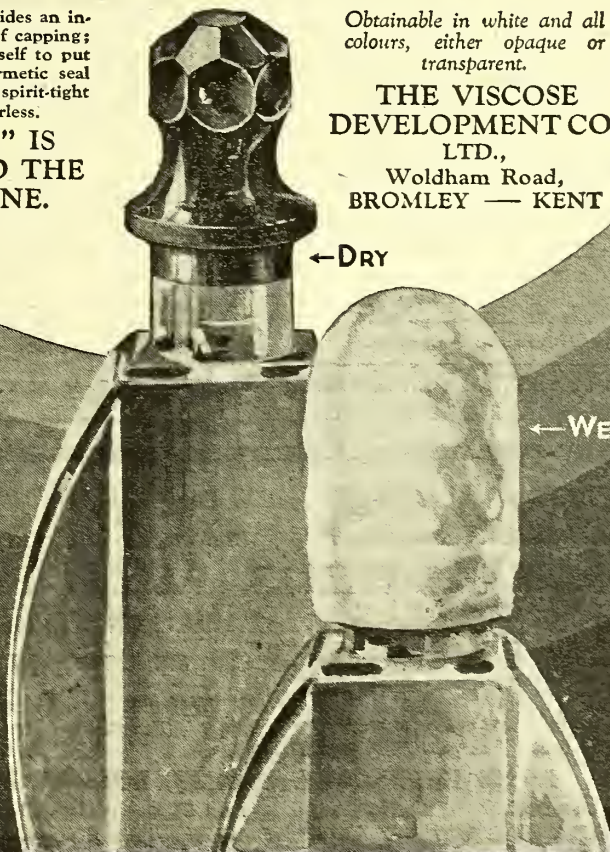
"VISKAP" IS
BRITISH TO THE
BACKBONE.

Obtainable in white and all colours, either opaque or transparent.

THE VISCOSE
DEVELOPMENT CO.,
LTD.,
Woldham Road,
BROMLEY — KENT

← DRY

← WET



'CAPS THE
LOT'



**ROBINSON'S of
CHESTERFIELD**
for
**CARDBOARD
BOXES**
ROUND • OVAL • SQUARE • FOLDING
ROBINSON & SONS LTD.
CHESTERFIELD & LONDON



"SAMPLING" BOXES

Illustrated above are a few of our "Sampling" Boxes.

These little boxes are very neat indeed and are fitted with self-sealing lid which can be supplied either in the dredger type or plain.

Send for samples and prices.

ROBINSON & SONS, Ltd.
Manufacturers of ROUND, OVAL, SQUARE AND FOLDING
CARDBOARD BOXES,
CHESTERFIELD

AYRTON-GRAHAM, Ltd.

Designers and actual manufacturers of

FITTINGS

For the MODERN PHARMACY.

Shop Fronts, Show Cases, Exhibition Cases, Counter Cases, Counters, Wall Cases, Glass Signs, etc., etc.

PHARMACIES MODERNISED.

*ALL GOODS OF BEST QUALITY
AND FINISH AT LOWEST RATES.*

Competent Fitters sent to all parts.

106 DUKE STREET, LIVERPOOL.

For Status Inquiries, Collection of Accounts, & Investigations,
Business Transfers, Stocktaking and Valuations,

**Join The Association of
Manufacturing Chemists, Ltd.**

which is **THE MEDIUM** for the TRADE.

PROSPECTUS ON APPLICATION

PARKIN S. BOOTH.

Accountant to the Association of Manufacturing Chemists, Ltd.
(for the Protection of the Drug, Chemical and Allied Trades)
26/28 KIMBERLEY HOUSE, HOLBORN VIADUCT, E.C.

Telephone: City 6942.

Or 35, 36 & 37 EXCHANGE CHAMBERS,
2 BIXTETH ST., LIVERPOOL. Telephone: Central 4330 (4 lines.)

GLASS BOTTLES

Large Stocks of PHIALS, PANEL FLATS, COUGH
MIXTURE PANELS, MEXICAN FLATS, CANNON
ESSENCES, &c., at low prices.

Write for Prices to—

FREDK. YOULDON (Formerly Proprietor of E. Youldon.
Established 1840.)

68 BASINGHALL STREET, LONDON, E.C.2.

'Phone: London Wall 3529.

Telegrams: "Youldon, Ave, London."

PHOSFERINE

New Window Display Conditions

Monthly Account.

Carriage Paid.

For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6, on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35% besides attracting the passer-by to the window and considerably augmenting sales generally.

Should a £5 or £2 10 0 parcel not be required, any smaller quantity will be forwarded carriage paid, and can, if desired, be regarded as part of the £5 or £2 10 0 order. On completion of the order and a notification that the display is in progress the bonus will be allowed.

The above conditions apply only to the United Kingdom.

EXAMPLE.

		COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	...	£2 2 0	£2 12 6
2 " 3/- " at 30/- "		3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	...	10 6	
		£4 11 6	£6 4 6

Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.

Window Display Material-Free and Carriage Paid.

WHOLESALE PRICES OF PHOSFERINE.

Carriage Paid.

Monthly Account.

1/3 size	...	12/- per doz. net.
3/- "	...	30/- " "
5/- "	...	48/6 " "
12/- "	...	114/- " "

PROTECTED PRICES.

Phosferine and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

PHOSFERINE (ASHTON & PARSONS) Ltd., Ludgate Hill, LONDON, E.C.4.

Telephone No: CITY 8733.

Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to Ashton & Parsons, Ltd., Ludgate Hill, London, E.C.4, when a fresh supply will be sent and postage refunded.

MAY, ROBERTS'
XMAS PRESENT LIST
1928



SEND A
POSTCARD
FOR A COPY
NOW



THE CHEMIST AND DRUGGIST

SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

NOVEMBER 24, 1928

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT

REVISED ADVERTISEMENT TARIFF.

Businesses Wanted and for Disposal, Premises to Let, Goods for Sale and Agencies—6/- for 50 words; every additional 10 words or less, 6d.

SITUATIONS OPEN—6/- for 40 words; every additional 10 words or less, 6d.

SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d.

Legal Notices, Tenders, Auctions, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column).

Miscellaneous (Wholesalers') Section for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less.

EXCHANGE COLUMN (for Retailers, etc.)—Twopence per word, minimum 2/-.

BOX NUMBER.

In each case replies may be addressed to a registered number or non-de-plume, c/o this Office, at a charge of 1/- extra for each advertisement.

PAYMENT.

All Advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C.4.

Telephone: Central 3617 (3 lines).

Telegrams: "Chemicus, Cannon, London" (2 words).

CLOSING FOR PRESS.

MUST REACH US
NOT LATER THAN

FIRST POST THURSDAY MORNING.

ALL ADVERTISEMENTS INTENDED FOR
INSERTION IN THIS SUPPLEMENT

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuation.

—LONDON.—Manufacturing Chemist's Business for Disposal; very much neglected; turnover has been many thousands pounds per annum, at present, however, only at the rate of £900 yearly; scope for considerable improvement under personal supervision. Further information will be furnished on application.

—KENSINGTON.—Good-class Retail and Dispensing Business; established over 50 years; returns, present rate, £2,250; profit, £650; small shop; estimated value of stock and fixtures £900; lock-up shop; rent £30; price £1,550; house can be had if required.

—PUTNEY (Near).—Family Retail and Dispensing Business, established many years; returns approach £1,600; profit above the average; good house; rent £80 per annum; held on lease; valuation terms entertained.

—LONDON, S.W.1.—Old-established Business; returns, under management, £30 weekly; capable of doing £50 weekly under personal supervision; long lease; rent £90, rising to £100 inclusive; lock-up shop with room at rear; price £250 for lease and goodwill, plus value of stock and fixtures, in all between £1,000 and £1,100.

—LONDON, W.—General Retail Business, with small N.H.I.; returns about £20 weekly; well-stocked shop; rent £70; sub-let more than covers rent and rates; held on lease; price £550, or offer; ill-health cause of sale.

—LONDON, S.E.—Family Retail and Prescribing Business; established many years; returns average £20 weekly, with scope for increase; good prices are obtained; lock-up shop with room at rear; rent 15s. weekly; renewable lease; price £550.

—LONDON, S.E.—General Retail and Dispensing Business, with Kodak Agency; old-established; returns about £1,300 per annum; single-fronted, lock-up shop; well fitted and stocked; rent £52 per annum; held on lease. Further details on application.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means the Profit, the Value of Business, &c., can be ascertained. Involving as this does the labour of stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

8.—ESSEX.—General Retail and Photographic Business; returns, under management, about £2,000 per annum; scope for considerable increase; good living accommodation; held on lease; price £1,250; this concern is known to us and we are of opinion that there is scope for material increase.

9.—KENT.—Good-class Country Retail and Dispensing Business, with Kodak Agency; returns approach £2,400; net profit, last year, £560; auditor's figures; double-fronted shop; very good house, with garden, etc.; rent £60; favourable lease; property may be purchased; price for business £1,850, or to include property £2,750.

10.—SOUTH COAST.—General Retail and Dispensing Business, with Kodak Agency; increasing turnover, last year being £1,700; ample living accommodation; held on agreement, with option of lease; rent £115; price £1,250.

11.—N.W. COAST (Health Resort).—General Retail and Dispensing Business; established many years; returns average £1,870 per annum; vendor states net profit to be £650, approximately; stock and fixtures estimated at £1,100; lease will be granted for any period; price £1,500, or near offer.

12.—MIDDLESEX.—General Retail and Dispensing Business, with Kodak Agency and small Ladies' Hairdressing Department; returns approach £50 weekly; good living accommodation; moderate rent; held on lease; price about £1,200.

13.—BRISTOL (Near).—Cash Retail Business; returns, under management, last year, £800; scope for increase; double-fronted shop; rent £75; sublet £60; price £400.

14.—EXETER (Few Miles From).—General Retail and Dispensing Business, with Wine, Spirit and Bottled Beer department; very old-established; average turnover £4,250 per annum; heavily stocked pharmacy; large house; premises may be purchased or lease would be granted; entirely unopposed; further details on application.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such service.

Valuations for Stocktaking

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

The Association of Manfg. Chemists, Ltd.

Business Agency, Transfer and Valuation Department

Head Offices—Kimberley House, Holborn Viaduct, London^{E.C.1} (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Accountant and Valuer. Phone: City 1261-2-3

BUSINESSES FOR DISPOSAL

- 1.—STAFFS.—Established Chemist's Business; situated on main road; unopposed in Photo and Optics; returns £24 p.w. scope for increase; lease can be arranged; rent £65 p.a.; price asked, lease and goodwill, £150, fixtures and fittings: £150, and stock approx. £450. Full particulars on application. (179.)
- 2.—LONDON, S.E.—Recently established Drug Stores, held on lease 14 years at £55 p.a., rising to £60 p.a. for last 7 years; premises consist of large lock-up shop with room at rear; returns average £12 per week; great scope for qualified man and N.H.I.; no reasonable offer refused. (181)
- 3.—MANCHESTER (District).—Old-established Dispensing Chemist Business in good-class suburb on a yearly tenancy at £120 p.a.; let off £117; returns average £27 per week, all cash; excellent opportunity as quick sale is desired; good reasons. (172)
- 4.—DURHAM CO.—Chemist Business for immediate disposal; lease can be arranged at £30 p.a. rent; takings £17; Kodak and Ucal Agencies; good living accommodation. (174)
- 5.—STAFFS DISTRICT.—Excellent opportunity for qualified man. Drug and Photographic Store on lease 5 years to run at £40 p.a.; returns £10 per week; could be easily trebled; good living accommodation; full particulars on application. (169)
- 6.—HULL.—Dispensing and Family Chemist Business in busy thoroughfare (which will shortly become a main road owing to alterations); rent £26 on a yearly tenancy, which can be secured; returns £900 p.a.; lock-up shop; good prospects for a young qualified man. Further particulars on application. (170)
- 7.—SOMERSET.—Drug and Photographic Business; premises, which consist of lock-up shop with room at rear, held on lease with 8 years to run at rental of £88 p.a. inclusive; good scope for live man; price asked £400. (178.)
- 8.—LONDON, S.W.—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,300 per annum; can be increased under personal management. Full particulars on application. (148)
- 9.—LONDON, N.—Old-established Retail Dispensing Cash Pharmacy, with N.H.I.; well fitted and good stock carried; premises, which consist of nice pharmacy, dispensary and six rooms, to be disposed of freehold at £1,250; returns average approximately £24 per week; can be increased with capital; no reasonable offer refused. (182)
- 10.—LONDON, N.W.—Retail Dispensing Business on 13 years' lease at £52 per annum inclusive; returns £1,000 p.a.; excellent opportunity for young qualified man. Further particulars on application. (183)
- 11.—SHEFFIELD.—Established on February 1 last; turnover £12 to £15 per week; rent £40 per annum; five years' lease from February 1; stock about £400, fixtures £300-£350. Further particulars on application.
- 12.—SOUTHEAST-ON-SEA.—For immediate Disposal, Chemist's Business, in busy centre; premises consist of lock-up shop, with Dispensing and storage room; rent £200 per annum, progressive; returns average £1,500, could be increased. Full particulars on application. (175)
- 13.—WANTED.—Two Chemists' Businesses in or near London; net profits not less than £1,000 per annum. All communications treated with strictest confidence.
- 14.—CARMARTHENSHIRE.—Old-established Chemist's Business situated in good position on main street, with living accommodation; held on lease for 7-14 years; rent £400 p.a.; returns average £35-£40; could be increased; stock approx. £8-900. Further particulars on application. (176)
- 15.—LANCS.—Old-established Chemist's Business, with Wine Licence; premises consist of shop and dwelling-house; property for sale, £1,000. Full particulars on application. (177)
- 16.—LONDON, N.—Established Chemist's Business; premises, which include convenient living accommodation, held on lease, 15 years to run; rental £50 p.a.; stock approx. £285; price asked £550, all at. Further particulars on application. (180)
- 17.—LONDON, S.E.—Old-established Dispensing and Family Business; in good position; returns average £20 per week; well-fitted shop; good scope for young and energetic chemist; price, all at £550. Full particulars on application. (184).

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

BERDOE & FISH

CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations)

- 1.—GLOUCE.—Good-class Light Country Retail, pleasantly situated; quite unopposed; returns approach £5,000, under manager; good profits; splendid house, every modern convenience; same hands many years; price £2,000; freehold £2,500.
- 2.—BLACKPOOL.—Good steady Business, with large Photographic trade; returns about £2,000; good profits; handsomely fitted and well stocked; price £1,500, or near offer.
- 3.—EASTERN COUNTY.—Old-established good Country Retail in best position, market town; returns approach £3,000; excellent house, large garden, garage, etc.; very heavily stocked; price, with freehold, £4,500, or offer.
- 4.—WILTS.—Unopposed Mixed Country Retail; returns last year nearly £1,500; net profit £400; large house, garden and storage; owner going abroad; price with freehold £1,350.
- 5.—MIDLANDS.—Profitable Light Retail, in unique position of busy market town; returns £40 weekly; low expenses; large house; garage and garden; fully stocked; price £1,400; worth attention.
- 6.—OXON.—Sound Light Retail, with Kodak Agency; returning £2,200, under manager; books audited; good position; scope for increase; price £1,350; recommended.
- 7.—HAMPSHIRE.—Light Cash Retail, with Kodak Agency; returns over £1,900; scope for increase; audited accounts; large shop with house available; garage, etc.; well fitted and stocked; price £1,500, or near offer.
- 8.—LONDON, S.W.—Well-established Light, Cash Retail, with N.H.I.; returns £2,000, under manager; low expenses; good stock; price £1,150.
- 9.—LONDON, S.E.—Light Family Retail; practically unopposed; full prices; returns £20 weekly, under manager; plenty of scope; price £550, or first reasonable offer.
- 10.—LONDON, N.W.—Profitable Cash Retail, with Kodak Agency; returns £980; scope for increase; low rent; stock and fixtures worth £425; price £600, or near offer.

BUSINESSES WANTED.

We have cash buyers waiting for businesses in London and Home Counties, returning £40 weekly and upwards; quick sales negotiated with the utmost privacy; correspondence invited. Estab. 1870. Telephone: Terminus 3574.

Write ERNEST J. GEORGE

ABOUT THE BUSINESS YOU
HAVE TO SELL OR REQUIRE.

Private Register kept of Businesses For Sale and Required.
Strictest confidence observed.

7 SOUTHAMPTON ROW, LONDON, W.C.1

3 St. Paul's Close, WALSALL Tel.: Holborn 8158
Tel.: 774 & 1000 Walsall

JOHN BRIERLEY, F.N.A.A.

VALUER, TRANSFER AGENT & EXPERT STOCKTAKER

135 QUEEN ST., NEWTON HEATH, MANCHESTER

Having recently disposed of several sound concerns (without publicity), I urgently require more returning £2,000-£5,000 p.a.
GENUINE CASH BUYERS WAITING.

Intending vendors should write me. "I SPECIALISE."
(Tel.: Falsworth 113.)

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

ARDWICK, MANCHESTER.—For Sale, Chemist's Business; small, but well-equipped shop with large store room above, situate in a thickly populated district, to be sold as a going concern, to include stock and fixtures, etc.; long lease at moderate rent; price £450. Full particulars from Messrs. Duncan B. Gray & Partners, Westminster Bank Chambers, Lord Street, Southport.

BERKS.—Double-fronted, handsomely fitted Pharmacy (with house), in unopposed area; can be had on 7, 14, 21 years' lease at rental of £100 per annum; stock only to be bought (£200-£300). Ernest J. George, 7, Southampton Row, W.C.1. Telephone: Holborn 8158.

BIRMINGHAM.—Excellent opportunity for young qualified; corner position; thickly populated working-class district; established 23 years; cash takings at present £15 per week, excluding N.H.I.; great scope for increase under energetic management; good house and garden; private entrance; room for garage; rent and rates, inclusive, £80 per annum; £520 all. 33/31, Office of this Paper.

LANCASHIRE SEASIDE RESORT.—First-class Chemist's Business for immediate disposal; returns over £2,000; beautifully fitted and stocked. Full particulars on application. 37/1, Office of this Paper.

LONDON, S.W.—Cash Drug and Photographic Stores; nicely fitted shop; 7 rooms; rent £65; side entrance; plenty of storage; trade £16-£18; splendid scope for M.P.S. with N.H.I. and opening for Dentist; price £300, all at. Apply Whiting & Co., 50 Abbeville Road, Clapham.

LONDON, E.—Well-fitted Retail and Dispensing Business, with Kodak Agency; excellent position in thickly populated district; net profit for financial year just ended, audited by chartered accountants, £480 (42½% of gross takings); long lease at £35 per annum; good reason for disposal. For further particulars apply to "G. C.," P.C.B. 68/32, Office of this Paper.

LONDON SUBURB.—Beautifully fitted, double-fronted Pharmacy, excellent position, doing small turnover owing to indifferent management; splendid opening for anyone giving personal attention; valuation terms entertained. 35/30, Office of this Paper.

LONDON, W.—Neglected Business for disposal; an excellent opportunity for a young and energetic man with initiative; takings at present £15 per week under indifferent management; has done £25 per week at very good profits; price £350 for quick sale, or terms might be arranged to suit the right man. For interview apply 35/25, Office of this Paper.

LONDON, W.—Good-class Drug Store in busy thoroughfare; high-class residential district; lock-up shop and basement; rent £82, on long lease; no near opposition; returns, present rate, £30 week at exceptional prices; price £1,200 for quick sale. Apply, giving banker's reference, 138/803, Office of this Paper.

LONDON, S.E.—Immediate disposal, great bargain, old-established Chemist's Business; averaged takings £20 weekly (summer months) under management; position unique; lock-up shop and good parlour, on lease at 15s. per week; no reasonable offer refused. 36/16, Office of this Paper.

NEWCASTLE-ON-TYNE.—Old-established Business for Sale; now under management; main thoroughfare; plenty scope under personal supervision; Kodak, N.H.I.; price £500 quick sale; part can remain if necessary; bankers' references for further particulars; no triflers. 137/800, Office of this Paper.

S.E. DISTRICT.—Good Light Retail and Photographic Business, with big N.H.I. Dispensing, for disposal; rent £60; good reasons for disposal. Apply, in first instance, to "Accountant," 1 Upstall Street, Camberwell, S.E.5.

SHEFFIELD.—Business for sale; best part of working-class district; returns, under management, £1,000 per annum, consisting largely of Prescribing and N.H.I.; rent and rates £48; good living accommodation; well stocked; good fittings; death cause of sale; stock £210; fixtures and utensils £60; reasonable offer considered. Apply Corns, 2 Bilston Road, Wolverhampton.

WARWICKS (15 miles Birmingham).—Drug Stores; established 3 years; returns £15 weekly; nice house and garden; price £100 goodwill and fittings; property, freehold, £550, or would let. Higgin, 58 Watling Street, Wilnecote, Tamworth.

WEST OF ENGLAND.—Good medium class Pharmacy in growing district; increasing turnover, with great scope; Private Dispensing 4,000 per year, N.H.I. 1,500; Kodak Agency; nicely situated; modern; good fixtures; premises to be bought; purchaser must be prepared for £2,000 transaction; a sound proposition. 36/26, Office of this Paper.

WESTERN SUBURB (working- and middle-class).—Genuine, well-established Light Cash Retail Business, with N.H.I., Kodak Agency, and small Optic connection; returns approach £2,000; books audited; good stock; 13 years' lease; low rent, covered by sub-let; banker's reference; price £1,125; no offers. P.C.B. 69/18, Office of this Paper.

YORKS. WEST RIDING.—Compact Branch; cash £13 weekly; N.H.I. 400 per month, and increasing; doctor close at hand; shop and basement; electric light; good, clean shop; cash can be doubled under personal supervision; bona-fide clients only; must state when able to view; price £250, or near offer. 37/10, Office of this Paper.

YORKSHIRE.—Drug Stores; exceptional opportunity for smart qualified man; £350, or near offer. Leeds.—Smart little Pharmacy; turnover £750; N.H.I. scripts 200 per month; easy rent; house available; £250 secures stock and fixtures. Further particulars apply Charles E. Naylor, Chemists' Valuer, 170 Vesper Road, Kirkstall, Leeds. Telephone: Horsforth 324.

£100.—NEGLECTED Drug Store, main road, Manchester; stock £70. 35/33, Office of this Paper.

£350. S.A.V., secures established Business in N.W.10 district; good working-class trade; Kodak Agency; good N.H.I.; returns £1,000 per annum, all cash; lock-up shop on small inclusive rental. Intending purchasers should write for interview, when further particulars will be given, to 35/8, Office of this Paper.

APPOINTMENTS.

PHARMACEUTICAL SOCIETY OF IRELAND.

THE Council of this Society will, on December 11, 1928, proceed to the appointment of an Examiner for the Practical Pharmacy Division of the Pharmaceutical Licence Examination, subject to the approval of the Government of Saorstát Éireann. Full particulars will be supplied by the Registrar, with whom applications should be lodged not later than December 3, 1928. E. C. GRENE, Registrar.

67 Lower Mount Street, Dublin.

FINANCIAL.

MEDICAL Doctor who has invented and fully patented new form of Elastic Stocking, as cheap as old, more efficient, and which will wear three times as long, desires meet someone prepared to finance and market same. 28/25, Office of this Paper.

PREMISES FOR SALE.

FOR Sale or to Let by tender, in Cork, Southern Ireland, magnificent, commodious Business Premises; steel shuttered arcade entrance; 3 storeys high; lavatories on each floor, yard, and all conveniences, including hand parcels lift to first floor; recently rebuilt at a cost of £7,500; situate in the most busy ready-money district in the leading city in Southern Ireland; eminently suitable for Chemists and Druggists as chain store or private enterprise; shop may be purchased or let separately from upper floors. Further particulars, Barry & Co., Auctioneers, Academy Street, Cork.

PREMISES TO LET.

SHOPS, with flat over, to Let on lease in excellent position at Bromley; suit Chemist. Apply Baxter, Payne & Lepper, opposite G.P.O., Bromley, Kent.

PARTNERSHIPS.

DRUGS, CHEMICALS, PRODUCE.—Well-established Merchant in City of London seeks Working Partner with about £2,000 capital. Apply 137/799, Office of this Paper.

BUSINESS WANTED.

WANTED, Chemist Business in West of England, Devon, Somerset or Cornwall preferred; Photographic, and if possible Dental Practice attached; cash available £2,000, or more if necessary. Apply 138/805, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

[HOME.]

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BOGNOR.—Chemists require a smart young Assistant for Counter, mainly for Photographic and Wireless; must be able to do repairs. Apply, with full details, salary, age and experience, the Manager, Long & Strickland, Ltd., High Street.

FOLKESTONE.—Wanted for December 17th, qualified Assistant, well experienced in good-class Dispensing and Retail business. Please give full particulars as to age, experience, references, etc., Mr. Steel (Hall & King), West Cliff Pharmacy, Folkestone.

LEYTON.—Qualified Lady Chemist required, December 10; permanency; Dispensing and Counter; salary offered £3 10s. per week. Apply, stating age, references, to 138/809, Office of this Paper.

LIVERPOOL.—Qualified Manager to take charge of important city branch; good opportunities; must have had wide experience and first-class references. Apply 137/795, Office of this Paper.

LIVERPOOL.—Smart unqualified Assistant. Full particulars as to experience, age, salary required, etc., to R. & J. Herman, Pharmacists, Aintree, Liverpool.

LONDON, N.W.—Qualified Manager, about 30 years of age, for Family and Dispensing business in good suburb; exceptional opening for thoroughly capable man. Give full particulars in first letter, stating age, experience, salary required, and when at liberty. 33/261, Office of this Paper.

LONDON, W.—Qualified Manager wanted immediately for business, with house attached, in industrial area; suitable for young married qualified man anxious to make progress. Give full particulars of experience and state age, salary, and when at liberty. 33/26, Office of this Paper.

LONDON, W.—Gentlemanly Assistant required, aged about 30; qualified or unqualified; must be a good Counterman. Full particulars of experience and salary required to 35/10, Office of this Paper.

LONDON, N.W.10.—Wanted, an experienced qualified Manager for branch; age 25 to 35; capable and obliging; with highest references. Give full particulars of experience and salary required, and when at liberty. 35/29, Office of this Paper.

LONDON, S.E.—Qualified Manager required for working-class Retail and N.H.I.; permanency to good man. Apply, stating age, experience, references, salary, etc., 138/806, Office of this Paper.

LONDON, S.W.—Young Qualified Assistant required at once; Dispensing and Counter. State age, references and salary required. 35/38, Office of this Paper.

LONDON, W.—Smart Junior required at once; must be a quick and accurate Dispenser and have had Counter experience; usual hours. Please state salary required, experience and references in first letter. 36/28, Office of this Paper.

LONDON, W.1.—Junior Assistant required for Counter, Stock, etc.; either sex; preferably one just completed apprenticeship. Write 37/5, Office of this Paper.

METROPOLITAN ASYLUMS BOARD.

DISPENSER required at Colindale Hospital, Hendon, N.W.9 (549 beds); male cases suffering from advanced pulmonary tuberculosis; salary £227 per annum, rising to £292 per annum; candidates must possess the Major or Minor Certificate of the Pharmaceutical Society; the person appointed will be required to undertake a certain amount of clerical work in the office of the Medical Superintendent; knowledge of typewriting and shorthand are desirable qualifications.

Application to be made not later than 10 a.m. on Monday, December 3, on form obtainable from the Clerk, Metropolitan Asylums Board, Victoria Embankment, E.C.4, by forwarding stamped, addressed foolscap envelope.

ALLAN POWELL,
Clerk to the Board.

MIDLANDS.—Qualified Chemist to develop shop, new estate; experience of General Druggery, Hardware, etc., advantageous; remuneration must be moderate till trade increased; prospects good; modern house accommodation. Apply 137/794, Office of this Paper.

OXFORD.—Qualified Assistant immediately, age about 30, of good appearance and address, for good-class Dispensing and Counter work; knowledge of Photography preferred. Send fullest particulars in first letter and enclose photo. Druce Co., 118 High Street, Oxford.

SUFFOLK.—Manager, qualified, with knowledge of Optics, required for progressive business at seaside resort. State qualifications, particulars of experience, and when at liberty. 33/260, Office of this Paper.

WOKING.—Wanted, by December 8, a capable, unqualified Assistant, chiefly for Dispensing, in a good-class Dispensing business. Apply, with usual references, experience, etc., to A. Lloyd Davies, Chemist, Woking.

AN Unqualified Gentleman, of good experience, and with a capital of about £1,000 at immediate command, can secure a Managing Partnership under cover of present proprietor in an old-established business in the South of England; living accommodation available. Apply 37/18, Office of this Paper.

ASSISTANT Pharmacist wanted, North London suburb. Write, stating qualifications, experience, and salary expected, to Box "O. S.," c/o Davies, 95 Bishopsgate, E.C.2.

ASSISTANT Dispenser required at the Hammersmith Hospital, Ducaue Road, Shepherd's Bush, W.12; salary 50s. per week, with two meals daily, subject to deductions under the Poor Law Officers' Superannuation Act, 1896. Candidates must be qualified and experienced in the Dispensing of Medicines. The successful candidate will be required to undergo a medical examination by the Guardians' Medical Officer. Forms of application may be obtained from the Clerk to the Guardians, 206 Goldhawk Road, Shepherd's Bush, W.12, and must be returned by Saturday, 1st December, 1928.

ASSISTANT, male, qualified preferred, for high-class Dispensing business. Dunsford, Chemist, Torquay.

ASSISTANT; active, well-educated young man wanted; must have served genuine apprenticeship and had some good experience since. Apply Boutalls, 150 Southampton Row, London, W.C.1.

DISPENSARY and Counter.—Unqualified Assistant required immediately; gentlemanly appearance, quick and accurate Dispenser; able to organise dispensary; age about 35; permanency. Apply, with photograph and references, stating age, experience and salary required, Galloways, Chemists, Birmingham.

HARRODS, LTD., require the services of a capable, unqualified male Counter Assistant; must possess sound knowledge of West-End trade; to a smart man, aged 28-30, possessed of vision and initiative, every encouragement will be given. Apply personally before 11 o'clock or write (in confidence) to Staff Controller, Harrods, Ltd., 44 Hans Crescent, S.W.

JUNIOR Assistant required. Apply by letter, with full particulars of experience, age, height, and salary required, to Parkes Chemists, Limited, 65 Harwood Street, London, N.W.1.

JUNIOR Assistant, not under 21, for good middle-class suburban Family and Dispensing Business in West Midlands; must be a clean and accurate Dispenser and of good address. Kindly give particulars of experience, age, height, photo and salary required to 37/4, Office of this Paper.

LOCUM required for Dispensing business; one who can take charge and is not afraid of work; must be thoroughly experienced. 35/24, Office of this Paper.

PARKES CHEMISTS LIMITED have a vacancy for a Lady Dispenser (Hall certificate), with some Counter experience. Apply by letter, with full particulars of experience, age, height and salary required, to the Secretary, 65 Harwood Street, London, N.W.1.

QUALIFIED, about 25, near London, for January 1; good Prescriber and Salesman essential; able to take charge; man trained in Agricultural business preferred; comfortable position. References, experience, salary, and photograph (if possible), with stamped, addressed envelope first letter. 33/36, Office of this Paper.

RELIABLE Assistant (unqualified) wanted for Slough, well up in Dispensing, Counter and Window-dressing. Apply by letter, "Qualified," 72 Southampton Row, W.C.1.

UNQUALIFIED Assistant; part time; student preferred. Apply 204 Ebury Street, S.W.1.

WANTED, Lady Assistant; Neasden district; unqualified; Counter and Dispensing experience. Give full particulars of experience and salary required. D. Edgar Davies, 59 Dudden Hill Lane, Willesden, N.W.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 60 to 100 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

OUNG ladies required, with good experience in Retail Pharmacy, for Clerical Work in London; interview necessary. Give full particulars, experience, and salary required. Apply 33/30, Office of this Paper.

OUNG lady, 18-20, required as Improver for Retail Counter. Apply, by letter, with usual particulars; must have had experience. The Prosser Roberts Co., Pharmaceutical Chemists, Church Street, Camberwell, S.E.

WHOLESALE.

LEADING firm of Wholesale Druggists in Lancashire, requiring an Assistant Chemist, would be pleased to receive applications from qualified pharmacists (to approximately 30 yrs of age), who have additional scientific training; the post one bearing prospects. Apply 29/20, Office of this Paper.

SSISTANT required with knowledge of Wet and Dry Chemicals. State age and experience. 138/807, Office of Paper.

HEMIST required by Manufacturers of Toilet Articles, with experience in Hair Tonics, Lotions, etc. Write fully in first place to BM, WEEZ, W.C.1.

PERIENCED Traveller wanted in London for the sale of British and Foreign Perfumes, Drugs and Toilet Articles among Chemists and Wholesalers; liberal terms offered to the man; also Representatives in the Provinces. Letters only Perfumdrugs, Ltd., 147 Holborn, E.C.1.

LABORATORY Manager required (qualified), able to manufacture all Galenicals; good organiser and disciplinary. State experience, age and salary expected. P.C.B. 20, Office of this Paper.

ARGE manufacturing firm, specialising in Foods for Invalids, require services of gentleman qualified by wide experience among Doctors, Chemists and Institutions to control Special paganda Department; applicants must have had some administrative experience and be able to create copy; only applicants giving fullest particulars of experience and remuneration required will be considered. 137/793, Office of this Paper.

ERFUMES AND BEAUTY PREPARATIONS.—First-class Salesman, with established connection among high-class chemists, Stores and Coiffeurs; the preparations are exclusive quality products only. Address (in confidence), with full particulars of ground covered, etc., 137/797, Office of this Paper.

ILL and Tablet Maker wanted for London Wholesale Druggists. Apply "Pharmacist," 138/802, Office of this Paper.

REPRESENTATIVE required, with excellent connection with Retail Chemists throughout Scotland and certain London areas; commission 10 per cent.-20 per cent. and expenses £1 week upon expiry of trial period. Also required Representatives with excellent Hospital connection throughout London and United Kingdom. 138/808, Office of this Paper.

REPRESENTATIVES, who must have established connections with Chemists, Hairdressers, etc., and be real salesmen, wanted for London, Wales, S.W. Counties and N.E. Counties, to high-class advertised Toilet Specialities; expenses and liberal commission. Apply 138/801, Office of this Paper.

WANTED, by provincial Wholesale House, a Laboratory Assistant, age about 25 to 30 years; experienced in general work (not analytical) and preparation of customers' own emulsions, etc. State experience and references to "Myrrh," 7/793, Office of this Paper.

WANTED, Representative calling on Chemists to carry a side line a Proprietary Article, on commission basis; 100 years established. 30/33, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN).

NDIA.—Senior qualified Pharmacist required; age not over 40; unmarried; good man necessary with experience, and knowledge of Optics preferred; liberal salary; 3 years' agreement; passage paid out and home. Apply P.C.B. 67/12, Office of this Paper.

INDIA.—Qualified Assistant required; age about 25; single; must have good-class experience; preferably one with knowledge of Wholesale and Office routine; splendid opportunity capable man, with prospect of Partnership after period of service; 3 years' agreement; second class P. & O. passage paid out and home; salary, first year, rupees 425 per month, with annual increments. Apply, with photo and copies of testimonials, to "WJP Export," S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C.1.

WEST AFRICA.—Qualified Chemist, with Optical Diploma, required for West Africa; age 25 to 30 years; single; commencing salary £470 per annum; free furnished quarters; first class passage out and home; generous leave on full pay; applicants are requested to state age, experience, and when at liberty to sail; progressive salary; excellent prospects for ambitious man. Apply P.C.B. 69/21, Office of this Paper.

SITUATIONS WANTED.

RETAIL. [HOME.]

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A.A.—ASSISTANT, 27, tall, unqualified, married, Salesman, man, Prescriber, Dispenser, twelve years' experience, seeks permanency; any district; disengaged. "D.," 63 Wainalong Road, Salisbury.

A.A.—AS MANAGER or Senior, qualified, 30, desires change early in 1929; all-round experience; used to complete control; 6½ years' London experience. "Scot," 33/29, Office of this Paper.

A.A.—EXPERIENCED Assistant; Dispensing, Counter and Window, etc.; 12 years in Retail pharmacy; London and provincial; unqualified; capable of taking charge; aged 28; married. Darling, Rural Cottage, Sandown, I.W.

A.A.—AN experienced Chemist and Optician, F.S.M.C., J.C.Q.O.; disengaged; send wires, expressed letters; either or both branches; any locality. "Chemist," 57 Mill Hill Road, Acton, W.3.

A.—LOCUM; qualified; long experience in all branches; active; excellent references; terms moderate; disengaged now. "S. C. I.," 54 Priory Road, West Hampstead, N.W.6. 'Phone: Hampstead 7151.

A.—DISENGAGED; qualified, experienced man; any capacity; moderate terms. "Chemist," 67 Western Road, Ealing, W.

A. CAPABLE, Qualified Assistant, 24, desires situation until Christmas; good Dispenser; well recommended. D. C. R. Tyrrell, 3 Holland Street, Barnstable.

A. WINDOW Display man, member B.A.D.M., fully experienced in Chemists' and associated displays, desires position with large firm or Multiple Chemists. 32/5, Office of this Paper.

A. YOUNG qualified Assistant desires situation; Dispensing, Photographic and Counter experience; excellent references. 37/15, Office of this Paper.

A. ADMINISTRATIVE position required by gentleman (26), L.D.S., R.F.P.S.G.; had to give up practice owing to ill-health. 37/7, Office of this Paper.

A. DVERTISER, 29, English qualification, at present resident abroad, seeks position good-class business or establishment offering either Managership or good prospects; excellent home and Colonial experience, including London managing; good Salesman, keen, with initiative and energy; free in spring or early summer; would consider post in small business with view to succession. Apply 22/16, Office of this Paper.

A. DVERTISER, single, qualified, tall, experienced, offers his services to a Chemist, London area; highest references; moderate salary; inquiries solicited. P.C.B. 69/22, Office of this Paper.

A. N ALL-ROUND, ardent, ambitious, capable and reliable Scot, M.P.S., 7½ years' experience, both in England and Scotland, seeks permanent progressive situation; good business builder; not afraid of work; abstainer; excellent testimonials; at present disengaged. Apply 34/4, Office of this Paper.

A. S Junior Assistant; 21; good references; Dispensing, Counter, Photo. 80 Brampton Road, St. Albans.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith, and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

AS experienced; management, Senior, Drug Stores; Prescriber, Salesman, Photo, Dispensing; smart and alive. "G., 130 Scott-Ellis Gardens, N.W.8.

ASSISTANT; 29; single; 5 ft. 10 in.; 11 years' good-class experience, including 3 years West-End; good references. "H. W., 52 Tredegar Street, Risca, Mon.

ASSISTANT or Locum; 20 years' Dispensing and Counter experience; long reference; abstainer; unqualified. Fall, 105 Tottenham Lane, Hornsey, N.8.

ASSISTANT, unqualified, age 22, seeks position with Chemist-Optician; East Midlands preferred; Dispensing, Counter, Photo. Phillips, 4 Rauceby Terrace, Lincoln.

ASSISTANT; married; unqualified; 37; Retail or Wholesale; trustworthy; 20 years' experience. Chivers, 13 Sandrock Road, Lewisham, S.E.15.

ASSISTANT; 24; unqualified; 7 years' good all-round experience (including West-End); now disengaged. 48a Hammer-smith Bridge Road, Hammersmith.

ASSISTANT or Locum; any capacity; capable Dispenser and Counterman; excellent references; terms moderate; unqualified. "E., 5 Wightman Road, N.4.

ASSISTANT or Locum; Counter, Dispensing, Photography; energetic; active; good reference. "K., c/o Hadfield, Chemist, 108 Butchers Road, Custom House, E.

ASSISTANT (lady), 23, 6 years' good-class experience, Counter, Window-dressing, D. & P. work; able to Dispense; unqualified. 35/20, Office of this Paper.

ASSISTANT; age 22; unqualified; 6 years' Dispensing and Counter experience; London or Brighton. 36/30, Office of this Paper.

BRANCH Manager; qualified; 16 years' successful provincial-London experience; disengaged when suited; locality optional; satisfaction. "Bemax," 33 Chingford-mount Road, E.4.

COMPETENT, qualified Manager; experienced all branches of Retail; excellent references; London preferred; disengaged. "Salol," 159 Church Street, Kensington, W.8.

DISENGAGED.—Open for Xmas trade, any capacity or period; thoroughly competent, obliging, industrious. Bishop, 56 Rudloe Road, S.W.12.

DISPENSER.—Lady, 22 (Hall), 3 years' Counter and Dispensing experience, disengaged, desires post with Doctor, Chemist or Hospital. Kingsnorth, Key Street, Sittingbourne, Kent.

ELDERLY M.P.S. requires berth; healthy and active; good references. "M.P.S., c/o Mr. Day, "Clifton," Low Roads, Spalding, Lincs.

ENGAGE on your own terms a Chemist and Optician experienced all branches; disengaged; any locality. 36/4, Office of this Paper.

ESSEX OR EAST LONDON.—Assistant; unqualified; tall; permanent or temporary; experienced; capable. D'earth, 506 Green Lane, Goodmayes, Essex.

EXPERIENCED qualified Manager, 30, requires permanency, London and district; good references; free December 1. "Aspirin," 51 Walham Grove, Fulham, S.W.

EXPERIENCED man; married; Apothecaries' Hall; immediate engagement; age 38; active; reliable Dispenser, Counter; London or near St. Albans; West-End and provinces experience. Standing, 20 Worley Road, St. Albans.

EXPERIENCED Assistant; sole, senior or manage under principal; best varied experience, Dispensing, Counter, Prescribing, International, Photographic, Prescription Optics; unregistered; energetic; business-building personality; disengaged. "N., 21 Albion Place, Maidstone.

EXPERIENCED; qualified; general Dispensing, Retail, Photographic and Store; disengaged. Mr. Janneson, 23 Sinclair Road, W.14.

EXPERIENCED Pharmacist, 35, married, desires change control of branch business preferred; Midlands, London Southern Counties; abstainer; reliable. 35/5, Office of the Paper.

FIRST-CLASS Manager desires responsible position with large firm; full knowledge all departments; 10 years' experience as manager, staff and stock control, buying etc.; tall; 34 years married. Write D. W. Turner, 476 Hessele Road, Hull.

GENTLEMAN, age 50, qualified, wishes engagement as Assistant or Manager; London or near; good experience in London and country; moderate salary; now disengaged. App. Thorne, St. Andrew's Hospital, Northampton.

IRISH lady (qualified L.P.S.I.) seeks position in London as Hospital Dispenser or in a good-class Pharmacy; 51 years city and country experience; interview could be arranged. 30/2 Office of this Paper.

JUNIOR; 21; first-class Dispensing experience; disengaged. Apply C. Hunter, "Greenwood," Cuckfield, Haywards Heath, Sussex.

JUNIOR; age 20; Counter, Dispensing, Photographic, Window-dressing; best references. D. McCarthy, 31 Woodfield Road, Paddington, W.9.

JUNIOR; 19; good references and experience; Matriculation and Part I. "Chemist," 35 Chestnut Street, Southport.

J.C.Q.O., M.P.S., 25, capable Refractionist, good Dispensing and Counter experience, requires position as Manager or Senior. 35/32, Office of this Paper.

LADY Assistant; unqualified; 25; 10 years' experience, Dispensing, Counter; disengaged. "W. J. C., 59 Ordnance Road, Woolwich Common, S.E.18.

LADY requires position with a Chemist or Doctor as Dispenser or Assistant; moderate salary required. K. Willis, Atherton Road, Forest Gate, Essex.

LADY Dispenser-Book-keeper, with Hospital and good Private experience, desires post with Doctor; excellent references. 35/35, Office of this Paper.

LADY Dispenser, just qualified (Hall), requires part-time post with Chemist; West or South-West London. 36/3, Office of this Paper.

LIVERPOOL OR SUBURBS.—M.P.S., 32, desires permanency as capable manager; good all-round experience and Photographic; excellent Dispenser; excellent references; good Prescriber; total abstainer; disengaged. "Pharmacist," 26 Kirkdale Vale, Liverpool, N.

LOCUM; M.P.S.; elderly; good references; moderate terms temporary or permanent; disengaged November 23. Wellburn, 5 Winterwell Road, Brixton, S.W.

LOCUM; qualified; registered R.P.U.; any period; competent reliable; or permanency. "L., 119 Fairlands Avenue Thornton Heath, Surrey.

LONDON OR SOUTH COAST.—Smart, experienced Pharmaceutical Chemist, middle-aged, as temporary or in supervisory capacity; reliable; good appearance; healthy; abstainer well recommended. "H. E. H., 7 Grosvenor Gardens, St. Leonards-on-Sea.

MALE, 23, seeks post as Junior; good all-round experience; excellent references. 36/21, Office of this Paper.

MANAGER, 36, single, desires post, London district; good all-round experience. 16/3, Office of this Paper.

MANAGER; qualified; experienced all branches; 12 years and two years; business changed owner. Collitt, 85 Roll Gardens, Ilford.

MANAGER; experienced; good Salesman and Dispenser; used to complete charge; highest references; London preferred. 37/6, Office of this Paper.

MANCHESTER district; unqualified; experienced Dispenser. N.H.I.; 37; undertake management if necessary. 36/4 Dickenson Road, Longsight, Manchester.

MINOR Student desires temporary position until second week January; 10 years' all-round experience (five in London). 34/1, Office of this Paper.

M.P.S., 23; willing; experienced in Dispensing, Agriculture, cultural, Photography. "R. S." Island View, Seisey, Sussex.

M.P.S., energetic, excellent Dispensing, Photographic and Counter experience, desires permanency as Manager; excellent references; capable; high or middle class; free; age 24; height 5 ft. 10 in.; 7½ years in trade. Utley, 3 Somerset Avenue, Blackpool.

M.P.S., 35, abstainer, managerial experience, offers services; £3 10s.; Bradford (Yorks.) or near; other districts £4. "Bhel," 257 Hyde Road, West Gorton, Manchester.

M.P.S.; 24; London and provincial experience; sound knowledge Photography and Window display; reliable Dispenser; London or Eastern Counties preferred. Pharmacist, 65 Deodar Road, S.W.15.

M.P.S., with about £300 capital, desires engagement with view to succession; Liverpool or London districts; excellent references. 36/31, Office of this Paper.

M.P.S., F.S.M.C., J.C.Q.O., 28, 6 years management, desires change; progressive berth with scope; wide experience; highest credentials; Photographic, Counter, and Staff control; Managership with accommodation; state fullest particulars. 36/39, Office of this Paper.

PART qualified, all-round Assistant; Window-dresser, Photography; very willing any capacity; permanency hoped for; good references. 28/30, Office of this Paper.

PART TIME wanted by young lady; three years' N.H.I.; Counter experience. "M. P.", 348 Kennington Road.

PART-TIME post required by student; evenings and/or weekends; excellent experience all branches. "L. C. P.," 36/9, Office of this Paper.

PHARMACIST desires position in London; middle-aged; well recommended; moderate salary accepted. "Alpha," 36/7, Office of this Paper.

PHARMACIST (woman), 22, desires post as Qualified Junior Assistant; S. England preferred. "K.," 16 Clermont Road, Preston, Brighton.

PHARMACIST, at present managing retail business, with Photo and Optics, for private firm, desires change new year; tall, good appearance, married, all-round experience; permanency. "B.," 89 Sefton Park Road, Bishopston, Bristol.

QUALIFIED; 23; tall; 7 years' good varied experience; Brighton or district preferred; excellent references; disengaged. S. George, 58 Lorna Road, Hove.

QUALIFIED, 38, Square trained, best experience, West-End, Store, Retail and Wholesale, requires position Dispensing or Laboratory; no counter; last position as manager showed large increase of business. 33/39, Office of this Paper.

QUALIFIED Dispenser, disengaged, seeks position, London; excellent references. Reply Mr. Boscence, 85 Chelsam Road, Stockwell, S.W.4.

QUALIFIED, 26, 5 ft. 10 in., 2 years Mayfair, excellent references, desires progressive post as Assistant or Manager in London; disengaged month's notice. 33/35, Office of this Paper.

QUALIFIED; long experience all departments, including management; clean record of success; post required either inside or out. 33/25, Office of this Paper.

QUALIFIED lady desires post as Assistant in good-class Dispensing business. O. Hollingworth, M.P.S., Townend Pharmacy, Wath-on-Dearne, Rotherham.

QUALIFIED (23), good Photographic knowledge, accurate Dispenser, disengaged. Write BM/2VHS, London, W.C.1.

QUALIFIED; Manager or Assistant; 31; tall; at liberty; experienced; good references. F. R. Smith, 34 Welbeck Avenue, Southampton.

QUALIFIED Manager, Locum; first-class London, Manchester, Liverpool experience; 20 years successful manager; disengaged shortly; references to date; interview; photo. B. Kilvert, 574 Bloxwich Road, Walsall.

QUALIFIED Manager; shortly disengaged through transfer of business; 44; married; very energetic; sound experience; liberty before Christmas. "Pharmacist," 63 Whitehorse Road, Croydon.

QUALIFIED, age 25, tall, desires post as Manager or Senior Assistant; 7 years' all-round experience; London district preferred. Thomas, 43 Grosvenor Road, Aldershot.

QUALIFIED, 24, disengaged, experienced Dispenser, desires a few weeks Locum, or permanency; London or Manchester. Brierley, Draycott, Derby.

QUALIFIED; Manager or Assistant; elderly; active; highest testimonials; disengaged; moderate terms. "M.P.S.," Tamar House, Stourvale, Christchurch.

QUALIFIED lady, young, requires situation in London; good all-round Dispensing and Counter experience. 35/28, Office of this Paper.

QUALIFIED Chemist, position required in Drug Store where capital could be used to mutual advantage. 35/27, Office of this Paper.

QUALIFIED, much business experience home and abroad, elderly, healthy, active, good Prescriber, desires responsible position. 36/29, Office of this Paper.

QUALIFIED; 46; single; good all-round experience; excellent references; now disengaged. 36/24, Office of this Paper.

QUALIFIED, 24, capable all-rounder, wants a "better role." 35/36, Office of this Paper.

SALESWOMAN; experienced; Drugs, Toilet, Perfumery and Fancy; disengaged. Miss Driffield, c/o Miss James, 11 Portland Street, Leamington Spa.

SOMERSET or Devon Coast preferred; unqualified Assistant; Public School; experienced, active, energetic; age 23; height 6 ft.; Counter, Dispensing, Photographics; recommended by former employer as honest, sober, reliable. Hilton, Hayden House, Broad Street, Lyme Regis, Dorset.

UNQUALIFIED; 11 years' good all-round experience Dispensing and Counter; excellent references; disengaged. Wellington, 39 Lavender Gardens, Clapham Junction, S.W.11.

WOMAN Dispenser, 29 (Hall Certificate), Retail and Dispensary experience, wishes permanent post in Pharmacy or Institution; anywhere; free December 3. 30/29, Office of this Paper.

YOUNG lady (Hall) requires post, preferably with Doctor or Hospital; good testimonials. Apply Lucas, Withybrook, Coventry.

WHOLESALE.

A.—**WOMAN** Pharmacist, 26, exceptional experience in Retail, including management, at present West-End, desires change to responsible position, London Wholesale House; preferably Secretarial, where specialised knowledge valuable. 35/31, Office of this Paper.

A **GENTLEMAN**, with an extensive connection among Chemists in the South and West of England, is open to carry an additional line on commission and part expenses basis. 36/37, Office of this Paper.

A **DVERTISER**, Pharmacist who has represented a well-known house for a number of years, seeks a change; thoroughly conversant with medical propaganda and pharmaceutical laws; own car. "Pharmacist," c/o Mr. D. C. Roberts, "Anelda," Rhos Road, Rhos-on-Sea.

A **DVERTISER**, with a sound experience in Tube and Fittings, wishes to represent first-class house. 34/3, Office of this Paper.

A **DVERTISER**, good connection home and export, desires representation for London on behalf of a first-class Perfumery House, to commence early in the New Year; would suggest contribution towards expenses and a fair commission. Further particulars at interview. Reply 138/804, Office of this Paper.

C **HEMIST**, qualified, 26, good salesman, own car, seeks post as Representative or in Wholesale; previous experience in Retail, Wholesale, and as Traveller in Drugs and Sundries. 32/8, Office of this Paper.

E **XPERIENCED** Representative, with excellent connection South Coast and Western Counties, desires representation with leading Proprietary or Toilet House; lengthy Retail experience prior to Wholesale. 36/17, Office of this Paper.

G **ENTLEMAN** desires representation of advertised line for Chemists in London and suburbs; whole time or additional to existing non-competitive lines. P.C.B. 69/15, Office of this Paper.

QUALIFIED, 33, Wholesale and Retail experience, seeks Representative's position in Eastern Counties with Pukka British house of undeniable repute. 35/11, Office of this Paper.

R **EPRESENTATIVE**, Lancashire and Yorkshire, Wholesale and Retail Chemists, etc., open for good Agency or Proprietary. 33/28, Office of this Paper.

S **ITUATION** required; any capacity; Laboratory, Syrups, Tinctures, Packing, etc. "G. C.," 11 Nelson Square, Blackfriars, S.E.1.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.*Why keep them any longer? Turn them into CASH.*

I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

S. E. HACKETT, 23 July Rd., Liverpool

(COLONIAL, INDIAN AND FOREIGN.)

QUALIFIED, age 29, five years in the East, good references, desires position as Manager or Assistant abroad. Reply to 36/32, Office of this Paper.

MISCELLANEOUS.**INVENTIONS FOR TRANSFER AND EXPLOITATION.**

- (1) Process for the preparation of a photographic paper for dry development by the action of ammonia vapour.
- (2) Process for the treatment of cotton to make an impalpable powder for use in the preparation of artificial silks, imitation leather, wallpapers, films, etc., and all derivatives of cellulose.
- (3) Apparatus for cooling or heating the motors of automobiles or aeroplanes.

Write to Office Technique, 139 bis Rue Jules Guesde, Levallois Perret, Seine, France.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, **RUDDUCK & CO.**, 219 Old Street, London, E.C.1.

SHOWCASES.—12 magnificent Mahogany and Glass Show cases on stands; modern design; plate-glass shelves and sliding doors; all in new condition and offered at moderate prices. **EDGLEY'S**, 151 Fleet Street, E.C.4. Phone: Central 1746.

£95 FOR A COMPLETE SET of Pharmacy Fittings, ready for immediate use, 10 ft. mahogany Drug Fitting with showcase, drawers, cupboards, shelving, etc.; 6 ft. Wall Case in two heights; 6 ft. Dispensing Screen with showcases and bevelled mirror in centre; 10 ft. mahogany Serving Counter with cases in front; two nests of Counter Drawers; plate-glass Counter Case, Perfume Showcase and Desk, Check Till. **PERCY R. E. JOSEPHS**, 63 Old Street, 1/5 Tilney Court, London, E.C.1. Phone: Clerkenwell 0929.

£98.—SET OF MAHOGANY FITTINGS.—10 ft. Drug Run, 30 drawers (glass knobs and labels), shelves, cupboards and lockers; 10 ft. glass-fronted Counter, drawers at back; 8 ft. Wall Case, 6 ft. Dispensing Screen, Perfumery Showcase and Desk, 3 ft. Counter Case, and Cash Till. Illustrations on request. **E. BERG, LTD.**, 335 Old Street, E.C.1.

£170.—UNIQUE SET OF PHARMACY FITTINGS in solid Fumed Oak, comprising 2 x 10 ft. Display and Stock Fittings, all with sliding doors; 2 x 5 ft. Pharmacy Fittings with drug drawers, etc.; these are all sectionalised; 4 x 4 ft. Wall Showcases with sliding doors; 2 full-sized Plate-glass Mirrors; Glass Front Serving Counter with drawers, etc., at back; exceptionally handsome Dispensing Screen; Check Till. Really the finest looking set on the market, and ready for delivery and erection this day. Call and view. Can be adapted to any size shop. **PHILIP JOSEPHS & SONS, LTD.**, 90/92 St. John Street, Clerkenwell, London, E.C.

EXCHANGE COLUMN.**FOR DISPOSAL.**

SECOND-HAND DISPENSING SCALES; overhauled; first cheque 25s. secures. 37/19, Office of this Paper.

WANTED.

MASSELEY, or similar pattern, Showcard Embossing Machine. "Chemist," 189 Stafford Road, Wallington, Surrey.
ELECTRIC FLAMBEAU as Maw's, 12/6127, second-hand; with or without globe. Brooks, Chemist, Whitby.
MELANGEUR, capacity from 28 to 56 lbs. Full particulars, age, and type of machine, etc., 137/796, Office of this Paper.
GOWER, Chemists' Bookseller, 41 Voltaire Road, Clapham, wants Pharmaceutical Books, including Pharmaceutical Formulas, B.P.C., P.J.F., Optical Books.

The Chemist and Druggist COMPACT LIBRARY**THE ART OF DISPENSING.**

The tenth edition of this well-known work is now ready. The book has been thoroughly revised and considerably improved, while maintaining the features which have made it so popular with several generations of students. It is kept by chemists in the dispensary for ready reference in cases of difficulties arising in the course of the day's work. Price 8s., by post 8s. 6d.

VETERINARY COUNTER PRACTICE.

Reprint of the seventh edition has just been issued. Chemists interested in veterinary practice will find the work indispensable, as it deals with the ailments of horses, cattle, sheep, pigs, dogs, and poultry, and the remedies that can be supplied. Price 7s. 6d. net, by post 8s.

PHARMACEUTICAL BOTANY.

An attractively written book dealing with the plants mentioned in the examination syllabus of the various pharmaceutical examining bodies. Botanical terms which at first sight are forbidding in appearance are explained so that the meaning is made crystal clear. A useful gift for apprentices and assistants who have not passed the qualifying examinations. Price 5s., by post 5s. 4d.

THE PHOTOGRAPHIC CHEMIST.

This is a concise guide to chemists commencing and carrying on a photographic department. The book is a reprint of the treatise in *THE CHEMIST AND DRUGGIST DIARY*, 1926, with additional chapters and formulas. Price 3s. 6d., by post 3s. 8d.

The C. & D. PRICE LIST FORMULARY, "P.L.F."

All users of the C. & D. Retail and Dispensing Price List require a copy of this Formulary. It brings together the formulas for unofficial preparations, the prices of which are quoted in the Price List. It is a choice collection of good formulas for articles in everyday request by the public. Price 2s. 6d., post free.

DISEASES AND REMEDIES.

Chemists and druggists need to know something about diseases and their treatment, and this book fills the gap between books of domestic medicine and standard works for medical practitioners. (5th Edition.) Contains 264 pages. Price 5s. net, by post 5s. 3d.

GUIDE TO PRELIMINARY EXAMINATIONS.

Deals with English, Latin, Arithmetic, Algebra, Euclid, and French, as required in the principal examinations recognised by chemical, medical, and pharmaceutical bodies. Price 3s. 6d. net, by post 3s. 9d.

MINOR EXPERIENCES.

Gives over fifty candidates' descriptions of the Minor Examinations as conducted by the Boards of Examiners in London and Edinburgh, prefaced by the official syllabus and other useful information. Indispensable to all chemists' apprentices and assistants who have not qualified, as it is the only book giving the questions and work of the Examination. Contains 116 pages. Price 2s. 6d. net, by post 2s. 8d.

PRACTICAL METHODS OF URINE ANALYSIS.

This department of chemistry is one which those behind the drug counter can profitably cultivate. The object of this book is to give chemists exactly the information they want on the subject. The book is written by a working pharmacist who is expert in the subject, and has been revised by a M.B. Lond. (3rd Edition.) Price 3s. 6d. net, by post 3s. 8d.

THE CHEMISTS' DICTIONARY OF MEDICAL TERMS AND TREATMENT.

A small book which explains the meaning of medical terms as to which customers often inquire from chemists. In addition to concise definitions of these technical terms, notes are given on the treatment of the more important ailments. Price 2s. 6d., by post 3s. 8d.

PROVINCIAL HOSPITAL PHARMACOPEIAS.

Uniform with the "Chemists' Dictionary," contains 296 pages and consists of formulas for medical prescriptions used in twenty-two hospitals and infirmaries in Great Britain outside the London District. Price 3s. net, by post 3s. 2d.

WOOTTON'S CHRONICLES OF PHARMACY.

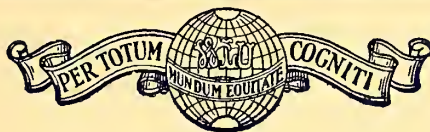
In two vols., maroon cloth, comprising 770 pages. Price 10s. 6d. net, by post 11s. 6d.

Published by "THE CHEMIST & DRUGGIST,"

42 CANNON STREET - LONDON, E.C.4

Branch Offices: Manchester and Sheffield, England, Melbourne and Sydney, Australia.

TRADE



MARK

WRIGHT'S

PURE ENGLISH MALT EXTRACT

COMBINED WITH

THE FINEST NORWEGIAN COD LIVER OIL

A Chemist writes :—

" Thanks to you I can snap my fingers at the cutters in Malt and Oil. Customers are coming back now for ' Wrights ' and they make no fuss about the price as they realise they are getting extra value for their money."



PRICES

	P.A.T.A.	Per dozen nett.
1 lbs.	1/3	10/-
2 lbs.	2/3	18/-

ATTRACTIVE SHOW MATERIAL ON REQUEST.

WRIGHT

LAYMAN & UMNEY

LIMITED

SOUTHWARK, LONDON

Your Customers

in increasing numbers will be asking for



TUBE, retail 1/3.

CRÈME SHALIMAR

FOR SOFT WHITE HANDS

EXTENSIVE NATIONAL ADVERTISING CAMPAIGN

now running

Announcements are appearing
periodically in—

"DAILY MAIL"

"WOMAN & HOME"

"DAILY MIRROR"

"NASH'S
MAGAZINE"

"DAILY SKETCH"

"NURSING MIRROR"

"GOOD
HOUSEKEEPING"

"HOME CHAT"

"MODERN WOMAN"

ETC. ETC.



JAR, retail 2/6.

